

Figure 1

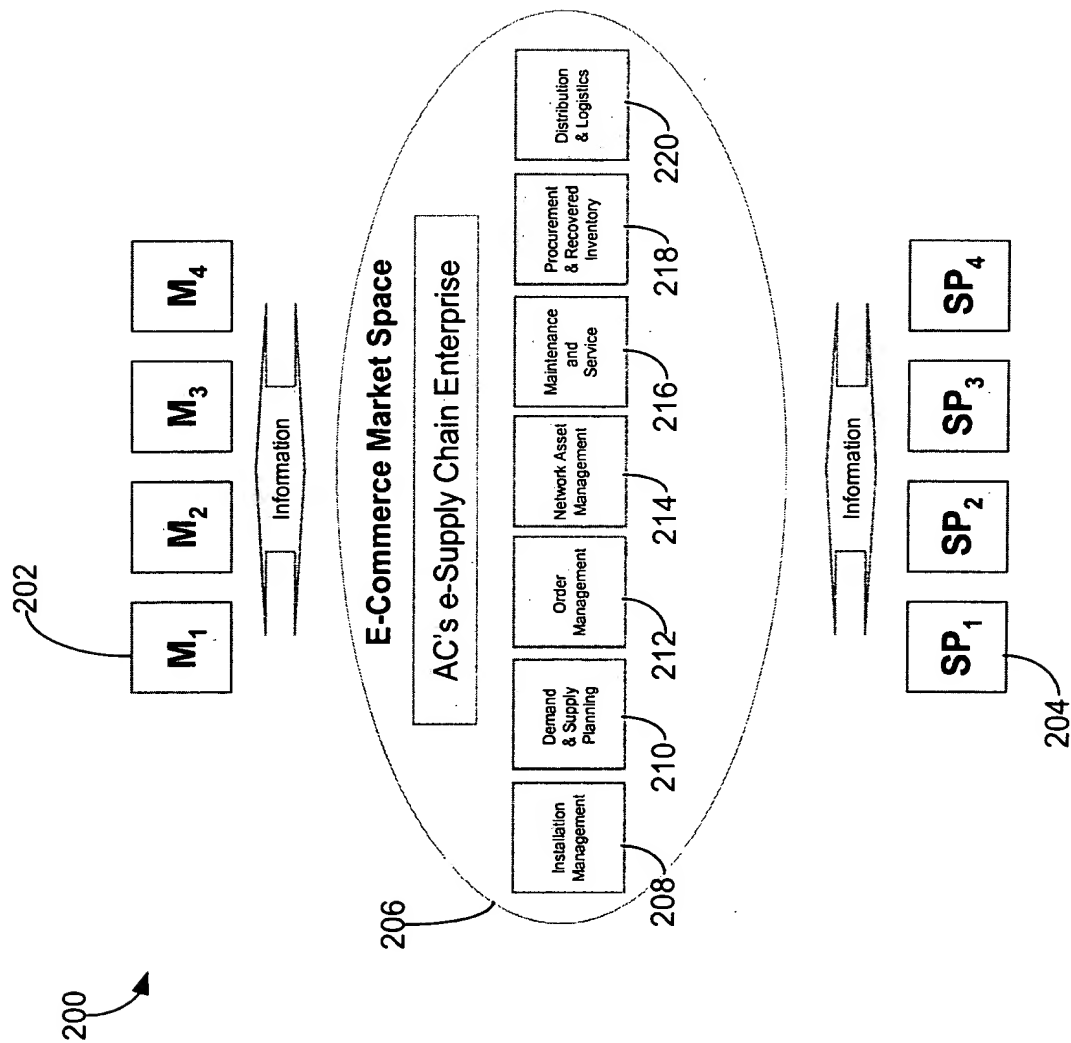


Figure 2

300

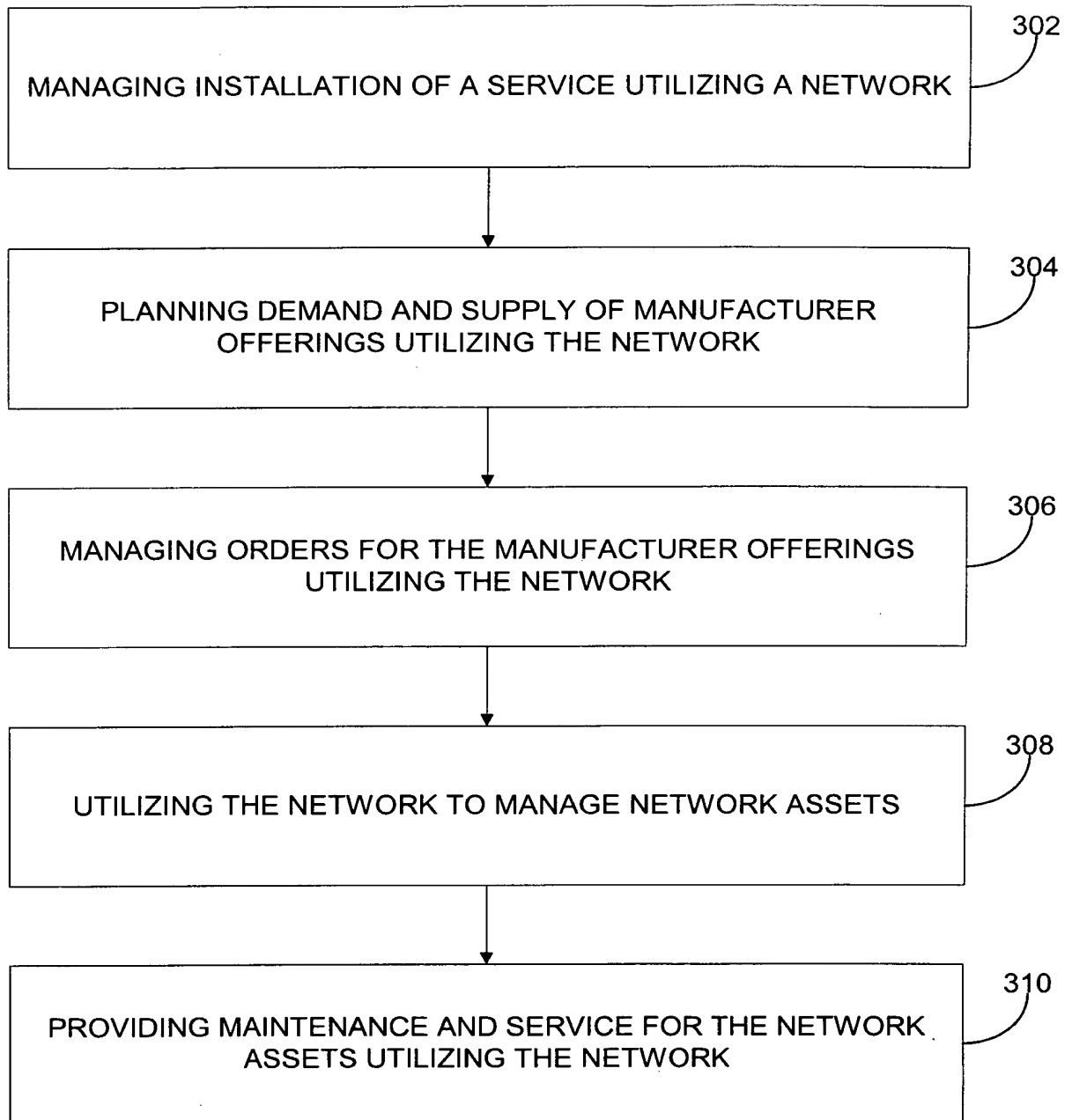


Figure 3

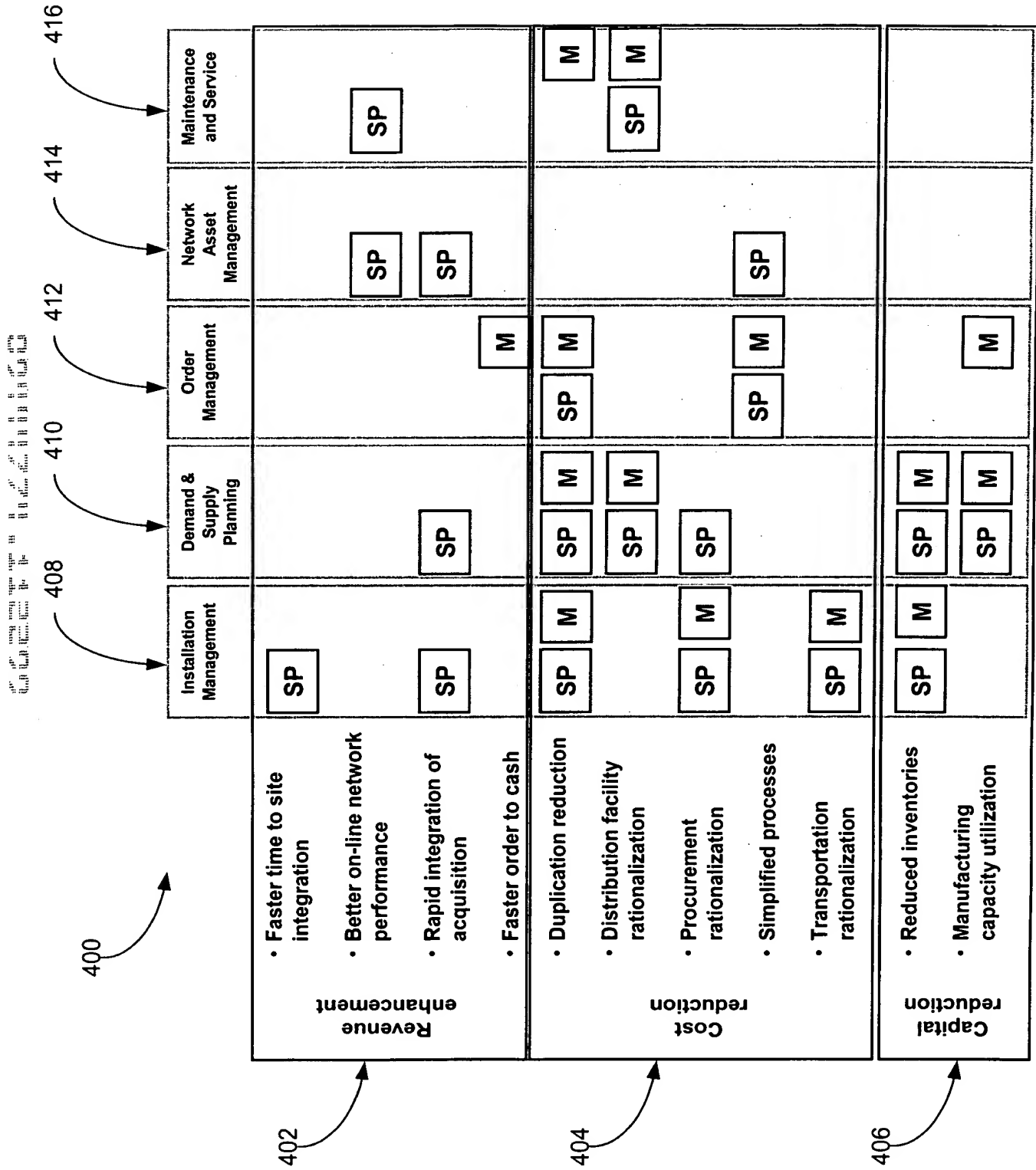


FIG. 5 is a diagram illustrating the relationship between Core Competencies and New Business Relationships for Service Providers and Manufacturers.

Core Competencies

Service Provider
<ul style="list-style-type: none">• New customer acquisitions• New customer segmentation strategy• Strategic technology mgmt• Technology life cycle management• New service offerings

502

- Network is planned based on a capability, and (i.e. capacity and features)



- Availability of sites is synchronized with the network roll out
- Joint optimization of network assets

Manufacturer	<ul style="list-style-type: none">• Focus on managing the customer relationship• Focus on managing production capacity• Focus on R & D• Focus on market coverage roll out
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504

New Business Relationships

Service Provider	<ul style="list-style-type: none">• Provide an open access channel for new service offerings from the manufacturer• Move to a focus on platform release strategy in line with service offerings
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506

Manufacturer
<ul style="list-style-type: none">• Gain the potential to reposition the network as a platform for their solutions pipeline• The ability for the manufacturer to build strategic alliances with solution integrators becomes a critical differentiator

508

Figure 5

212

eSupply Market Space

210

216

214

Installation
Management

Demand &
Supply
Planning

Order
Management

Network Asset
Management

Maintenance
and Service

End to end process visibility and harmonization

New Capabilities

- Collaborative management
- Milestone based project planning
- Visibility
 - Hardware
 - Services
- Collaborative forecasting
- Collaborative network roll-out and planning
- Supply Coordination
- Collaborative Capacity Planning
- Reverse inventory management
- Technology sharing
- Increased visibility
- Tracking and status
- Order capture
- Standardization/compliance
- Life cycle management
- Asset tracking
 - Growth
 - Capacity
 - Technology
 - Amount
- Product launch/rollout
- Technology Sharing
- Proactive management
- Scheduling and planning
- Increased information and visibility

Main Enablers

- Collaborative planning tool
- New installation processes
- Supply chain planning tool
- Production planning tool
- Roll-out planning tool
- Electronic order capture
- Electronic-based order flow
- Order tracking tool
- Network operations link
- Asset tracking tool
- Life cycle management model
- Roll-out Planning Tool
- Planning tool
- Network tracking interface

202

Manufacturer

Service Provider

206

Figure 6

700

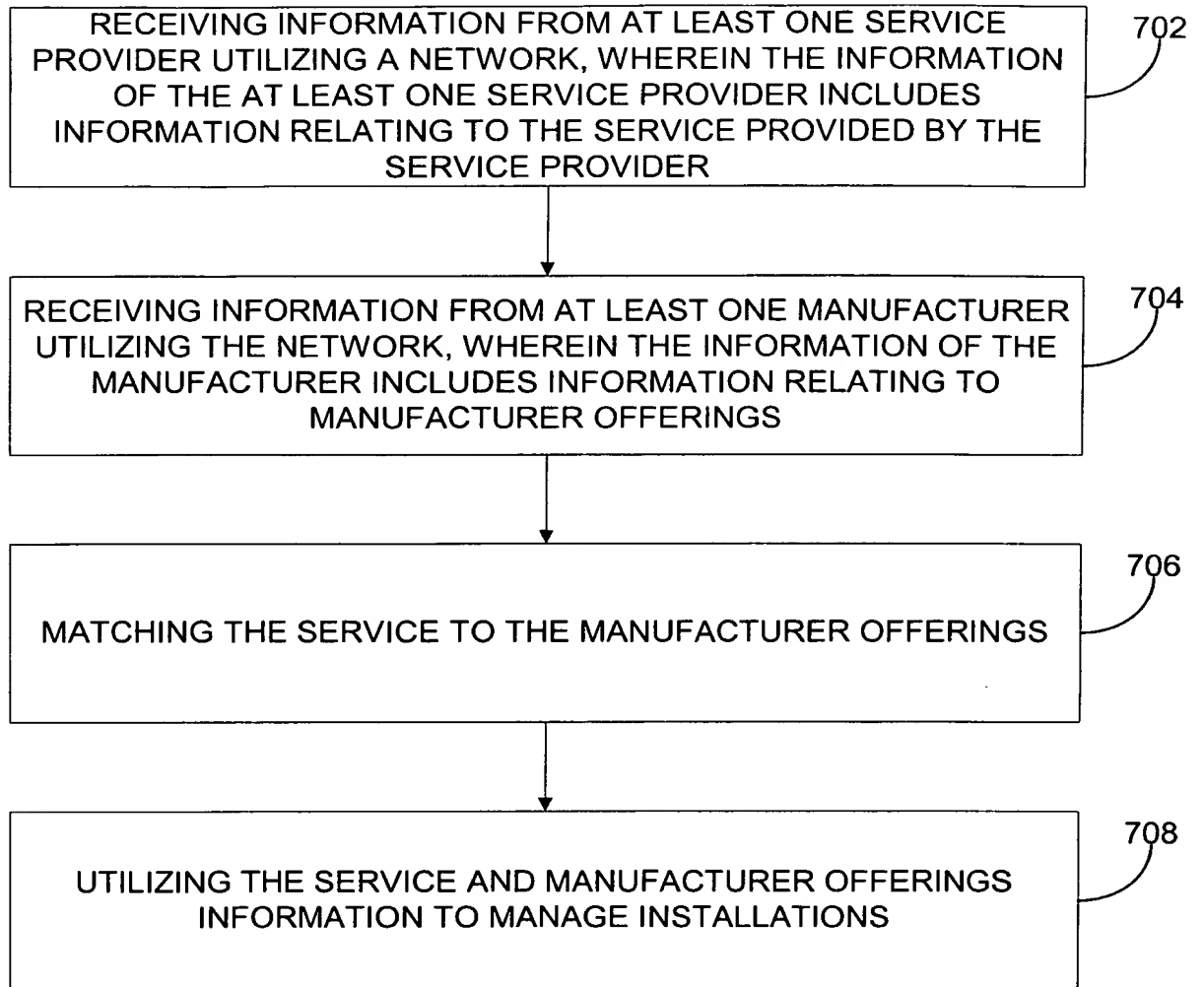


Figure 7

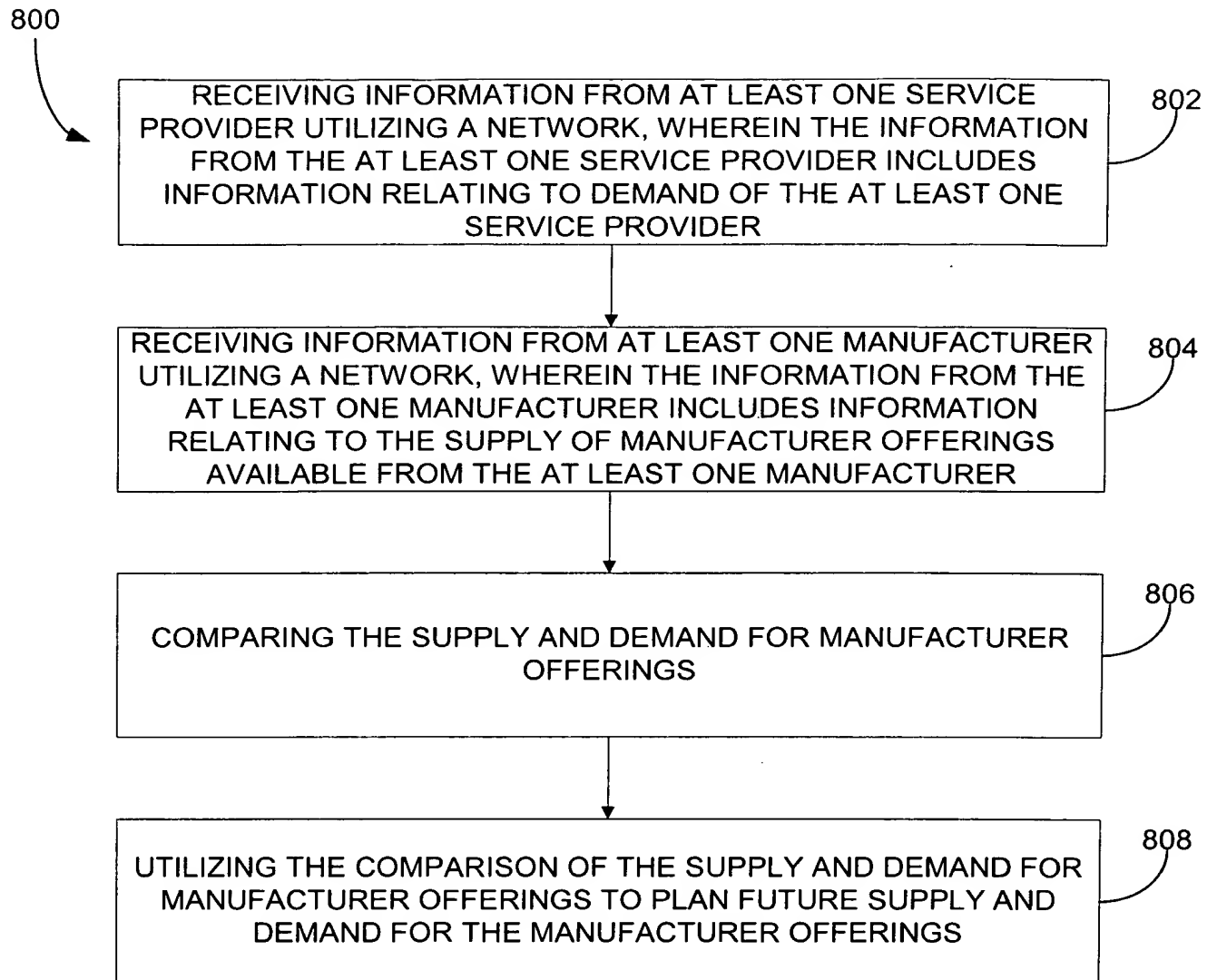


Figure 8

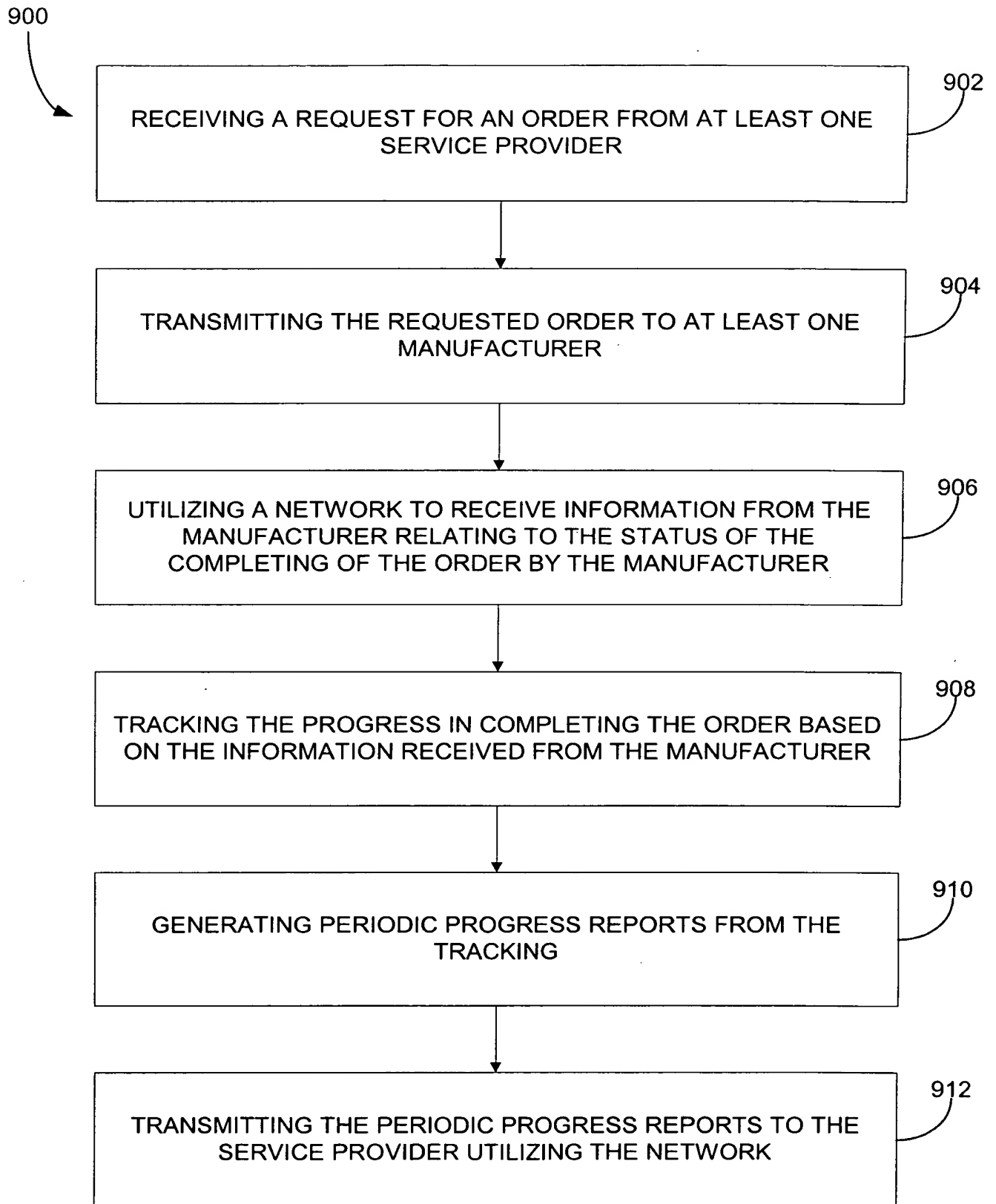


Figure 9

1000

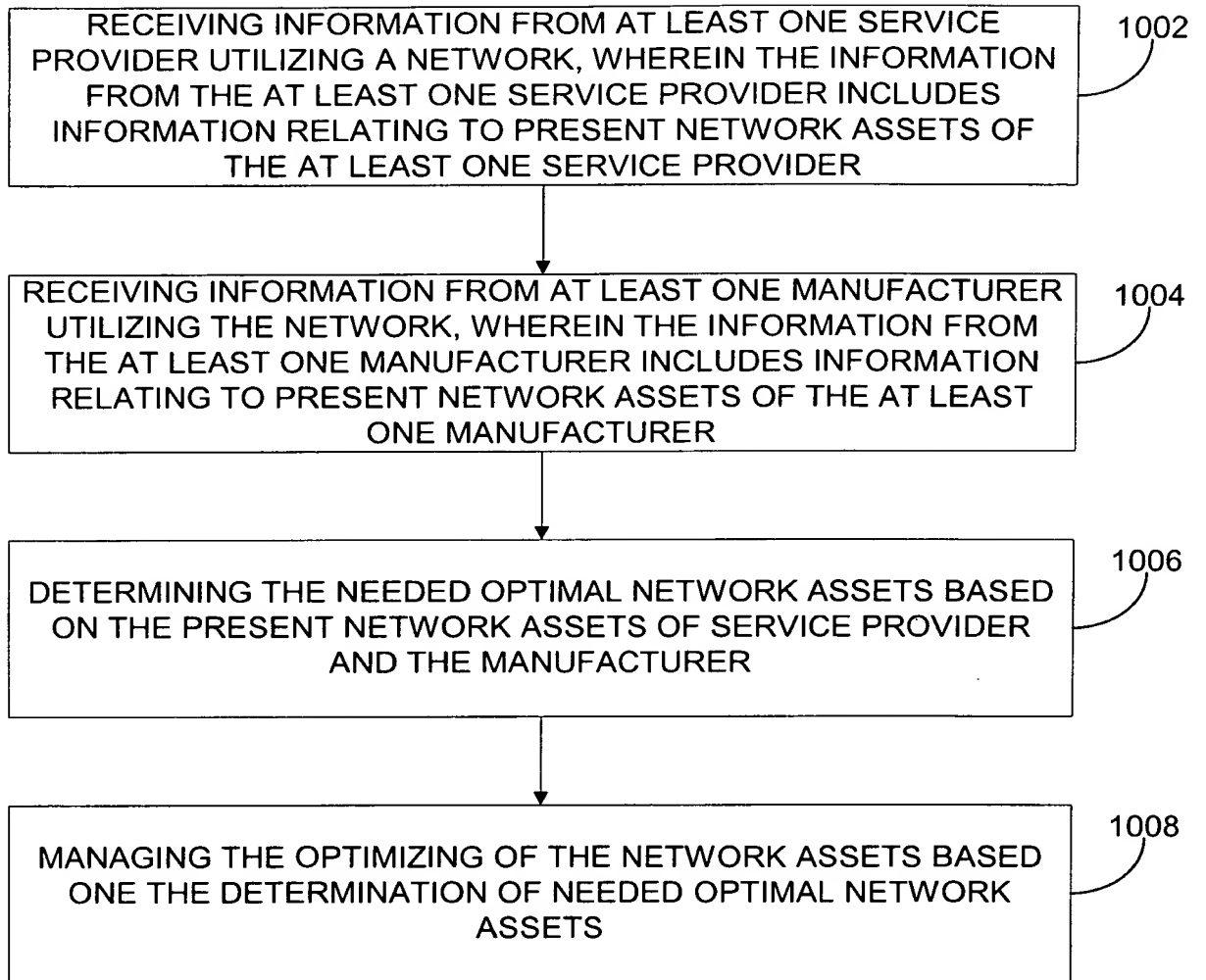


Figure 10

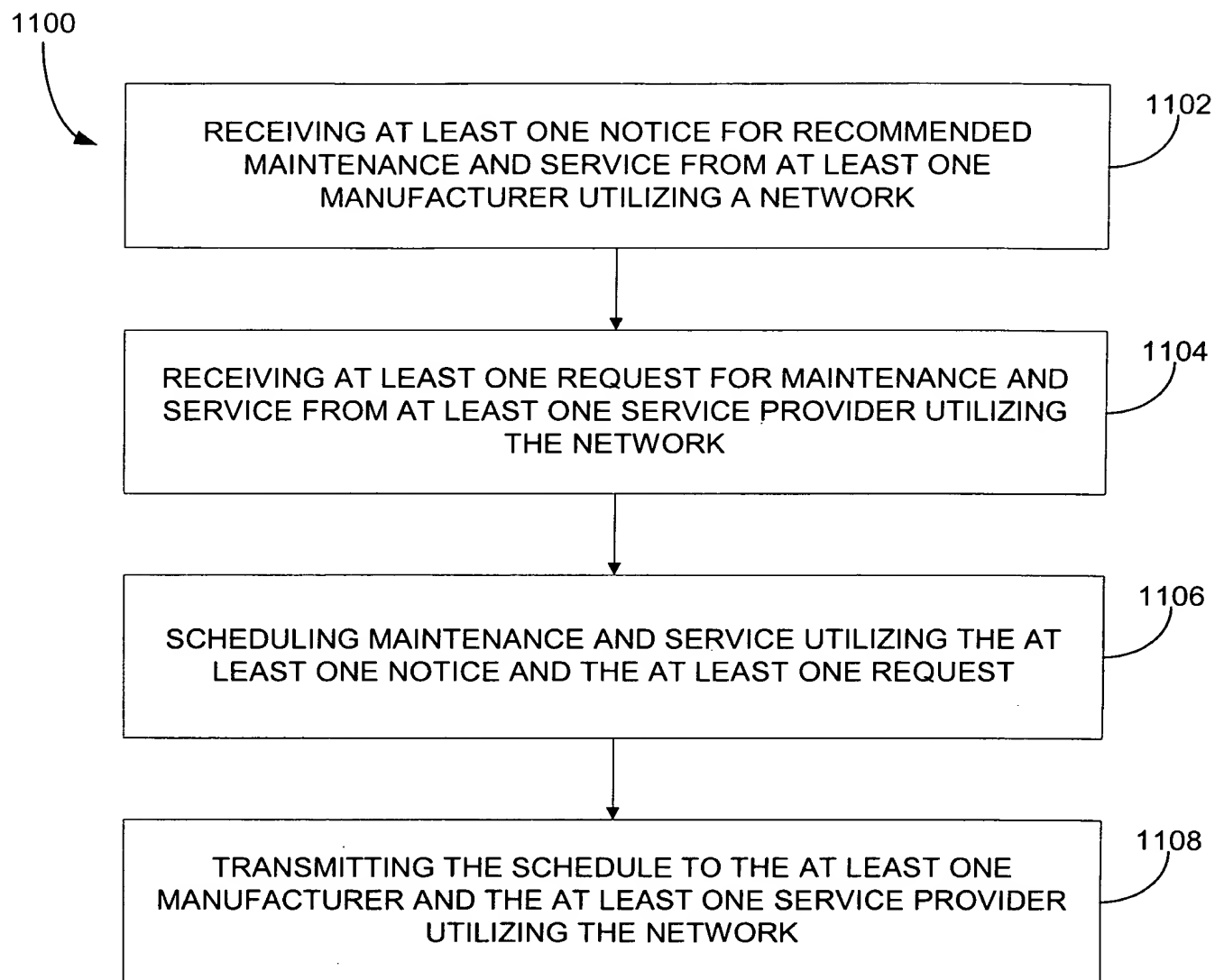


Figure 11

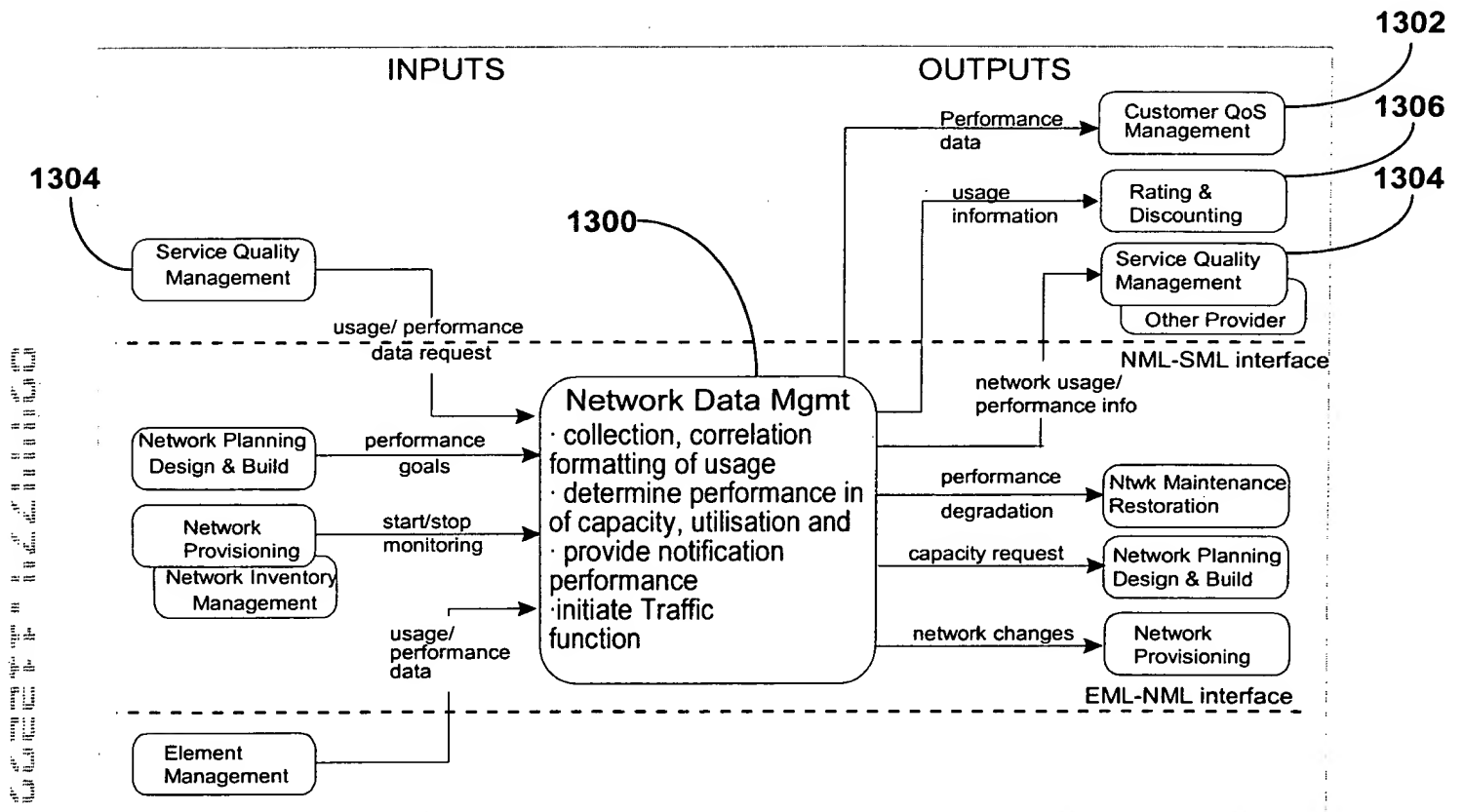


Figure 13

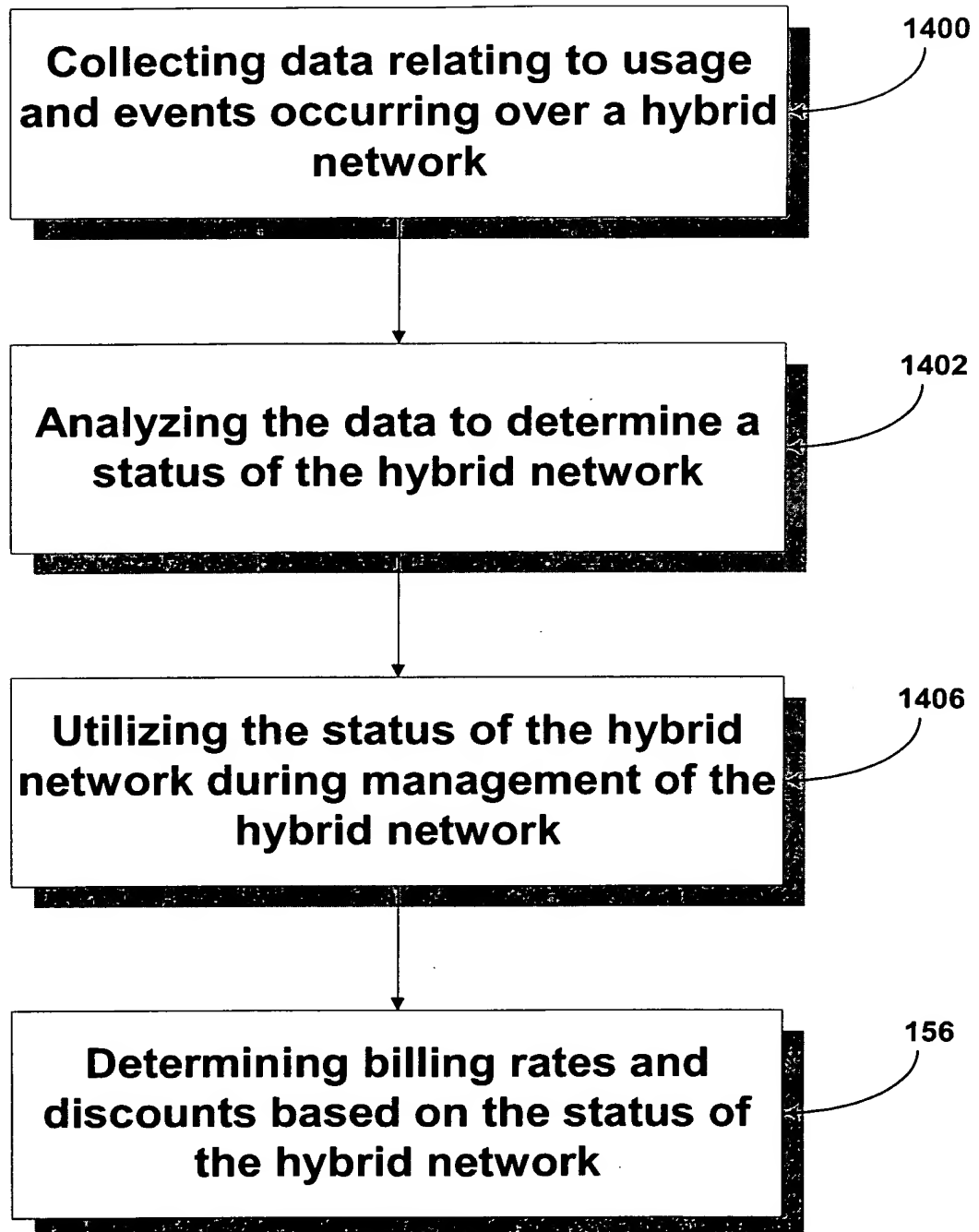


Figure 14

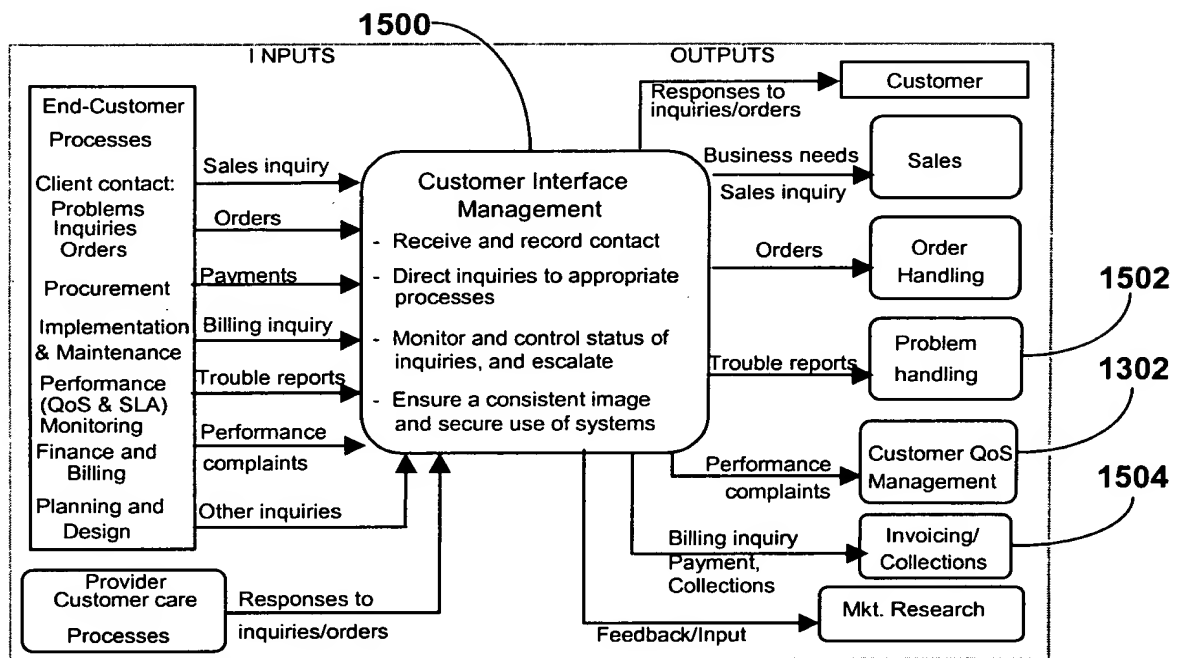


Figure 15

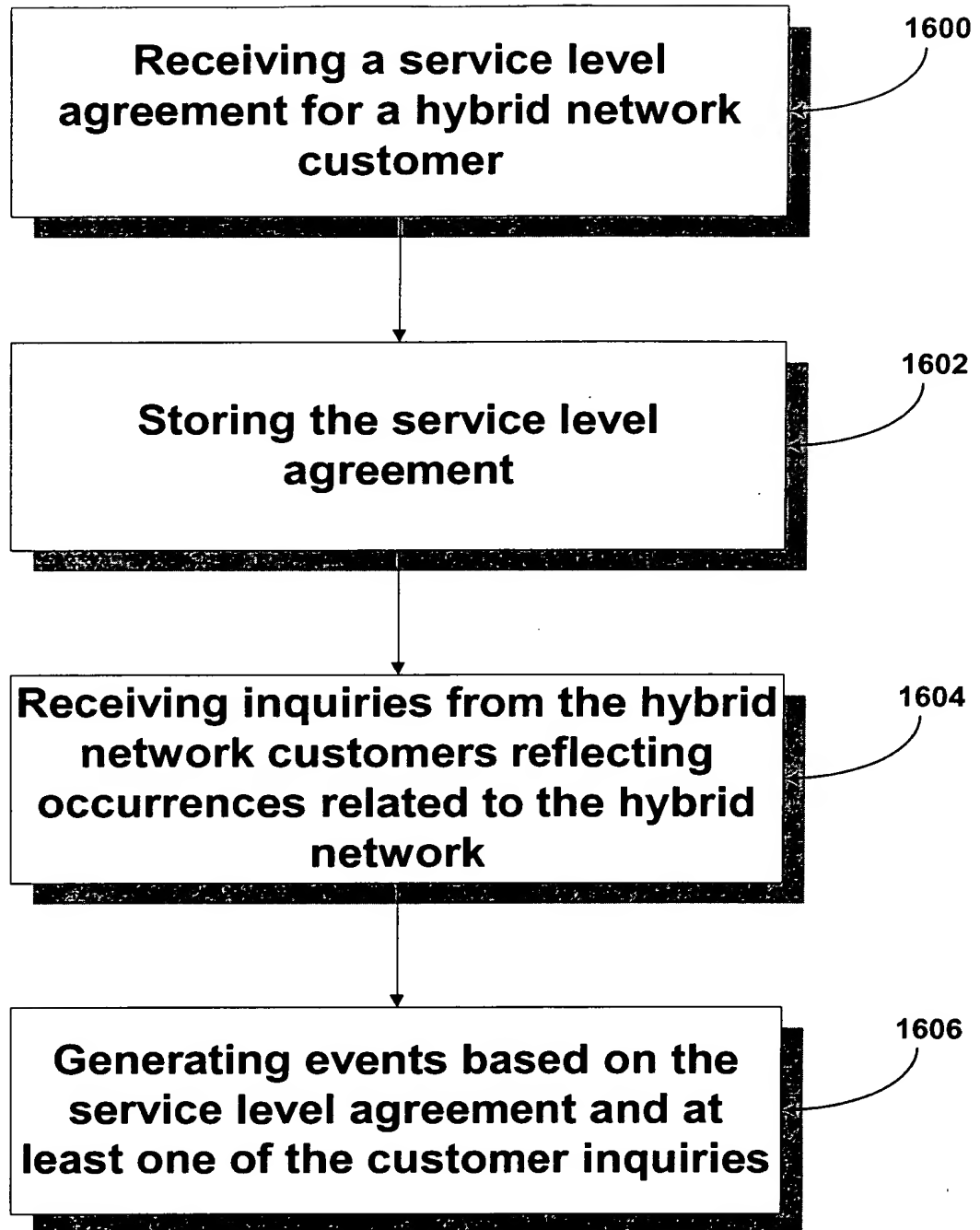


Figure 16

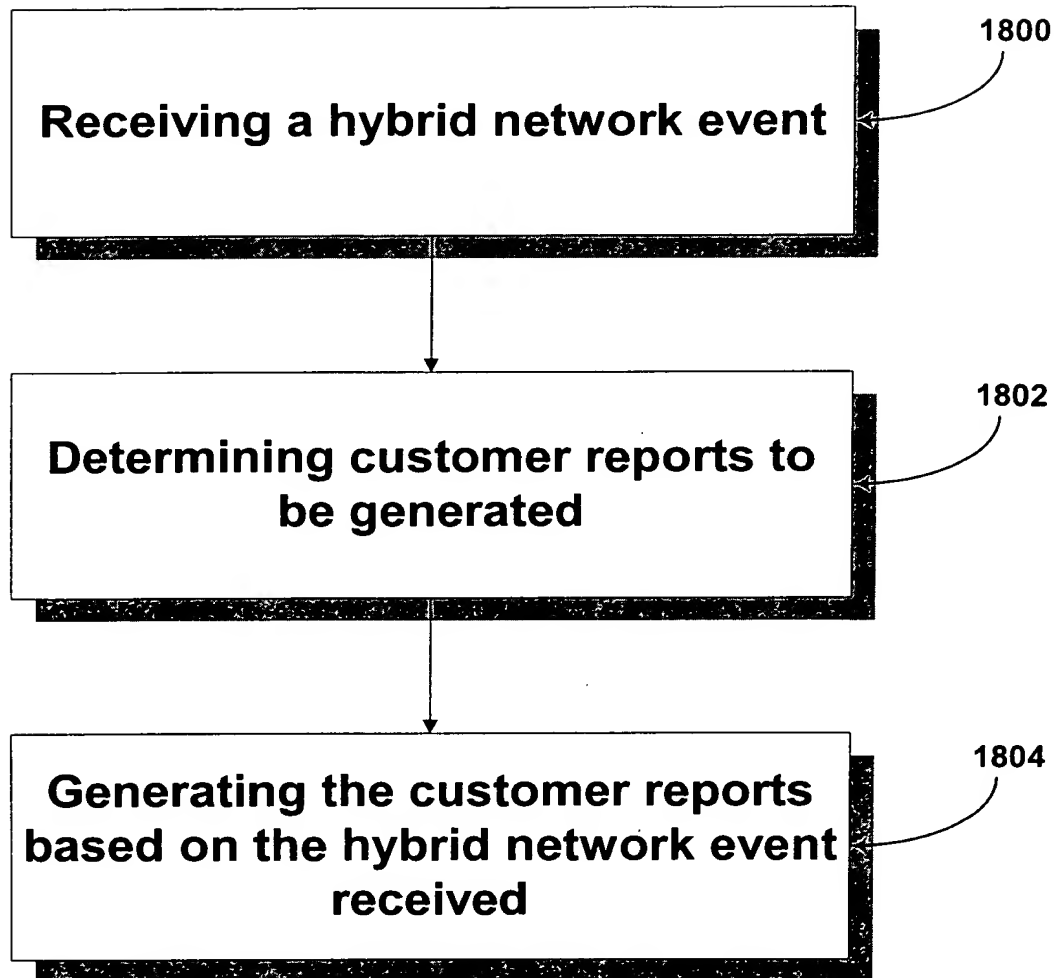


Figure 18

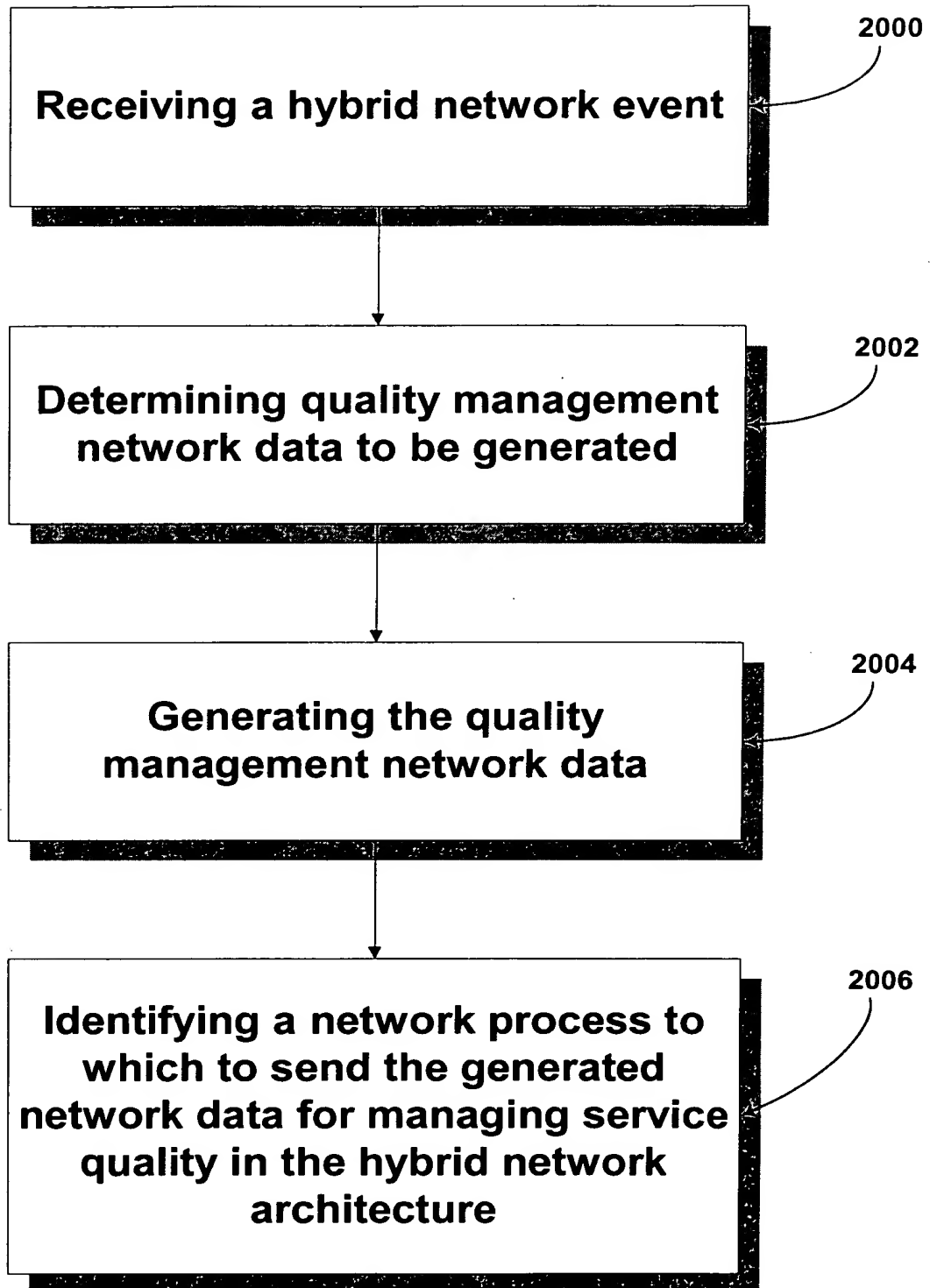


Figure 20

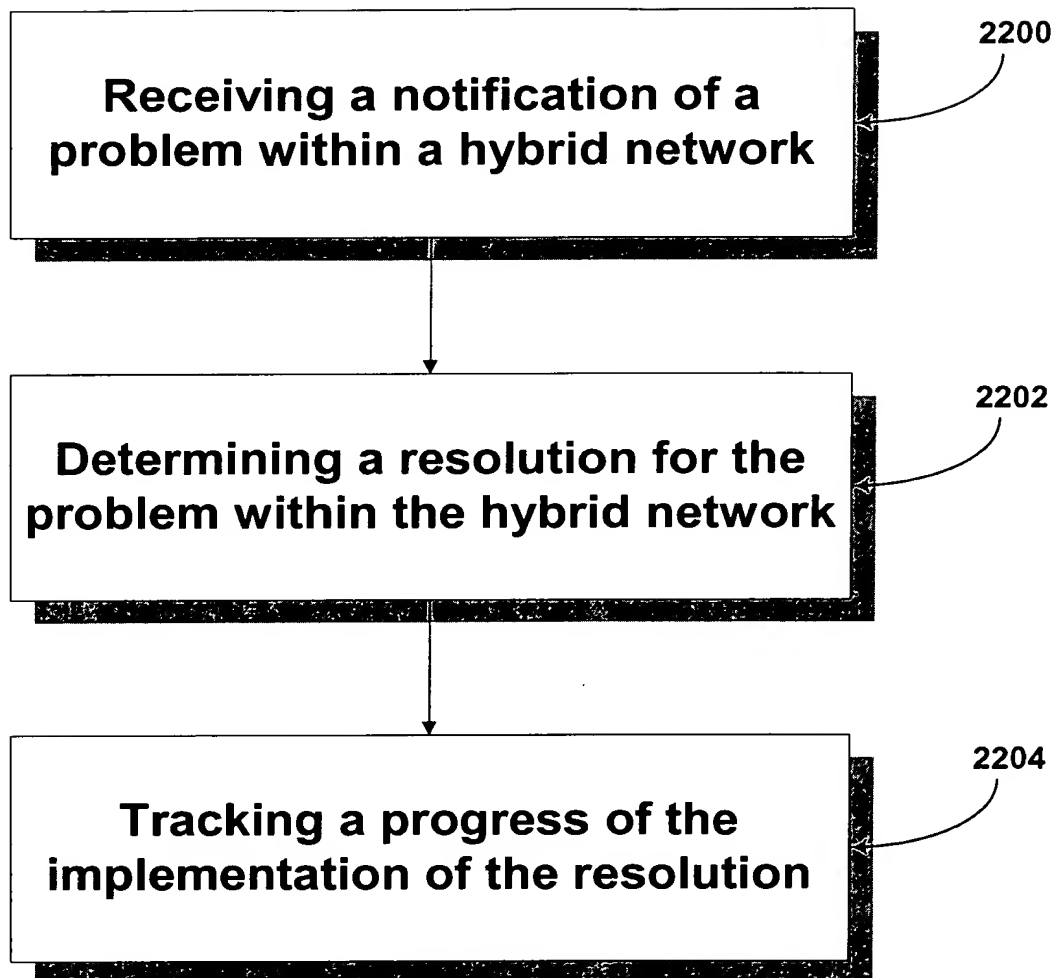


Figure 22

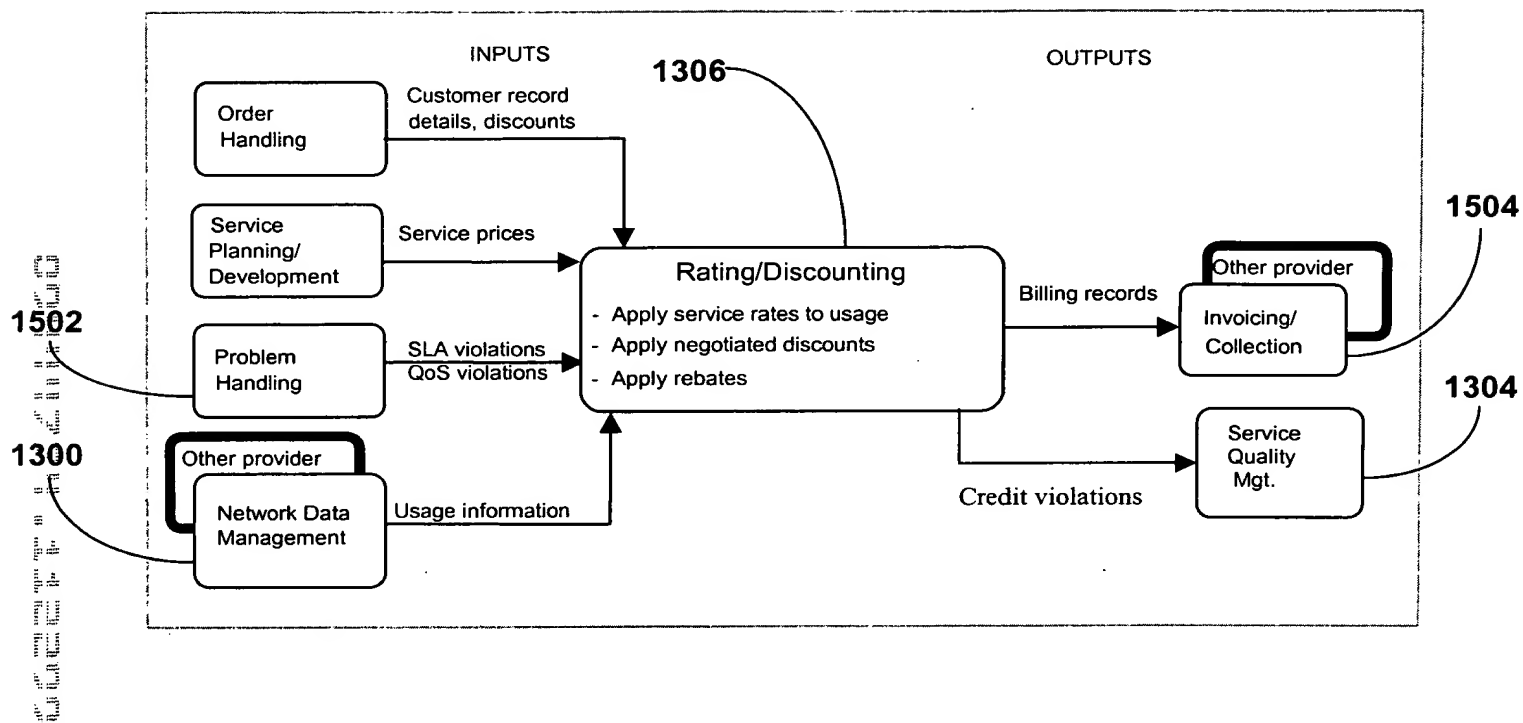


Figure 23

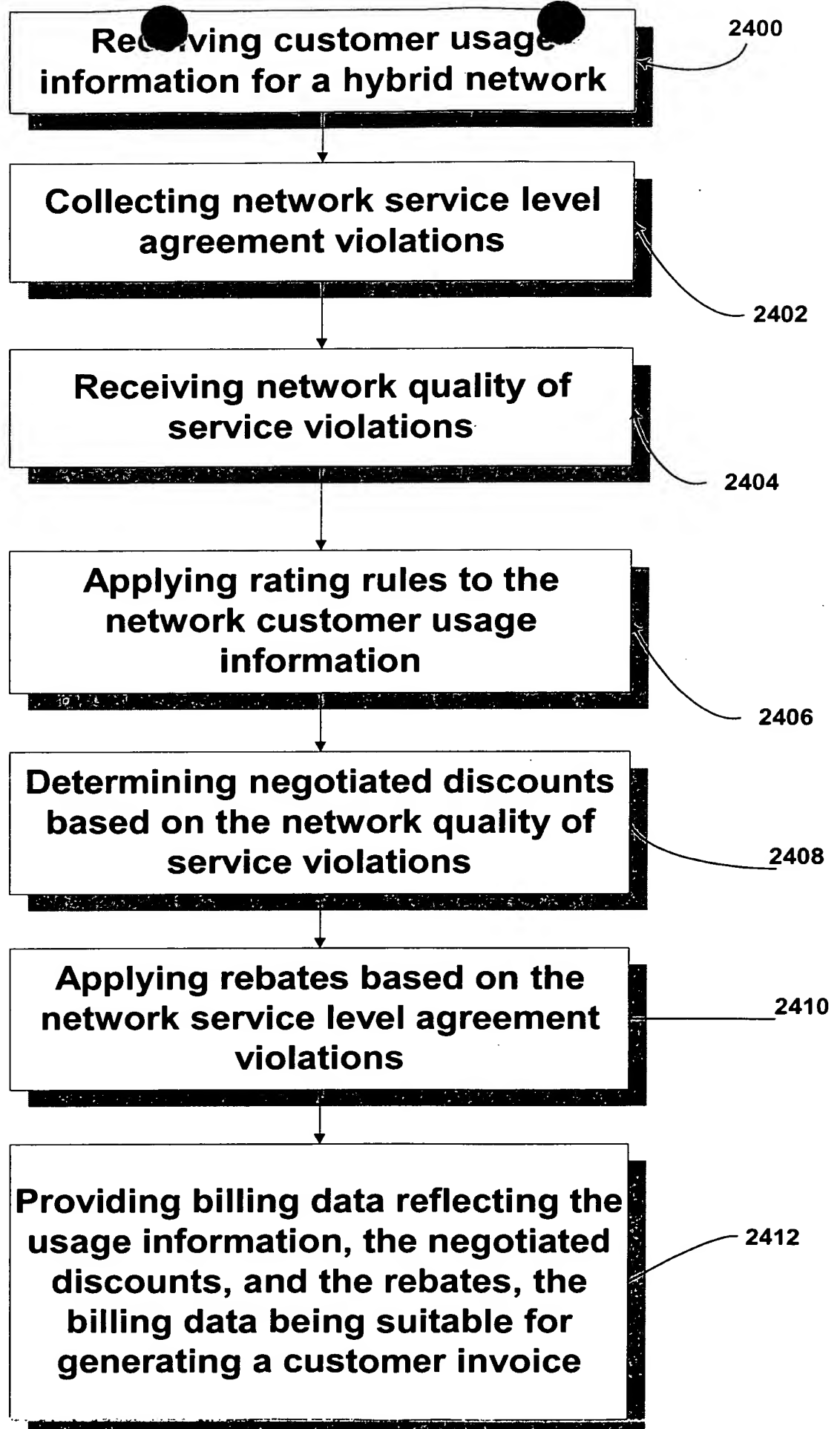


Figure 24

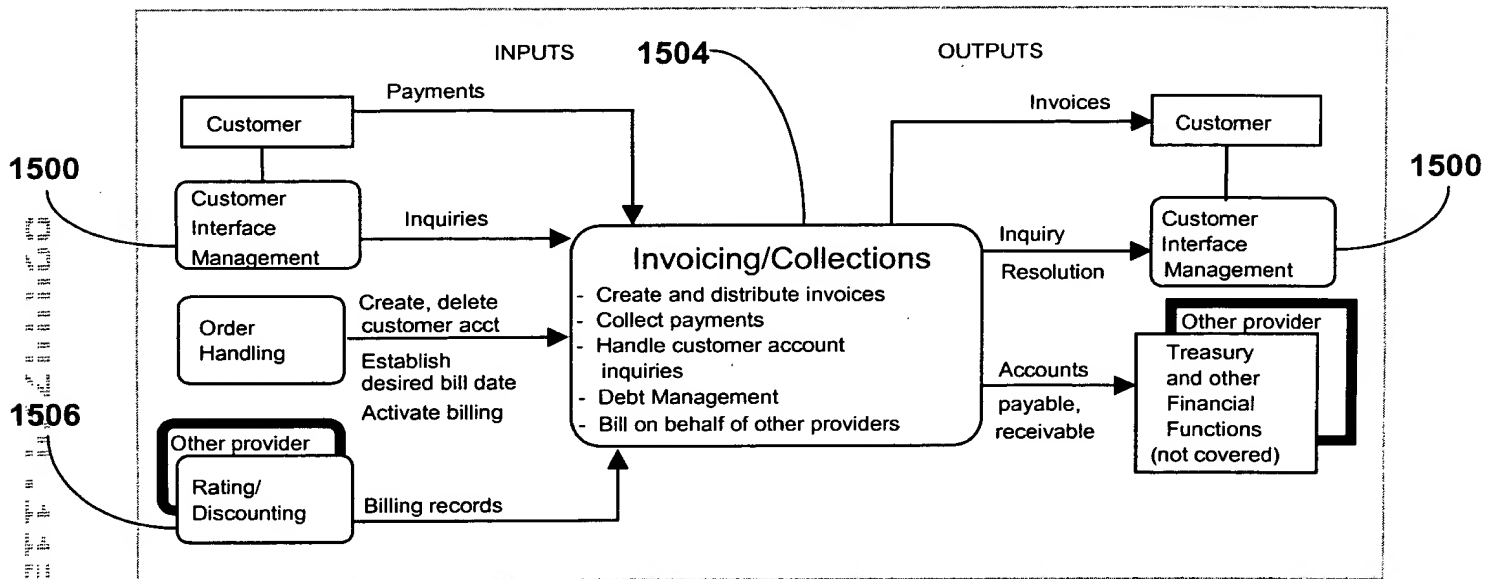


Figure 25

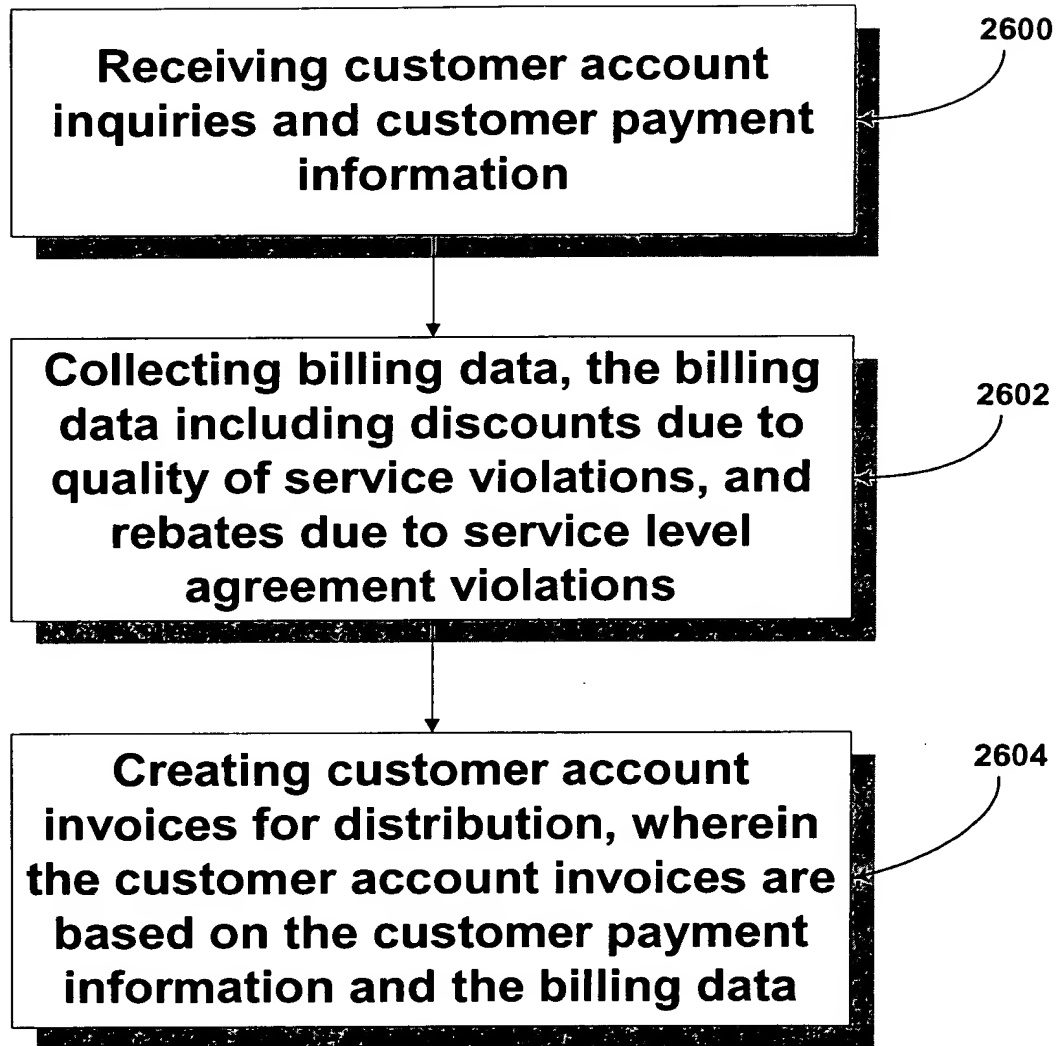


Figure 26

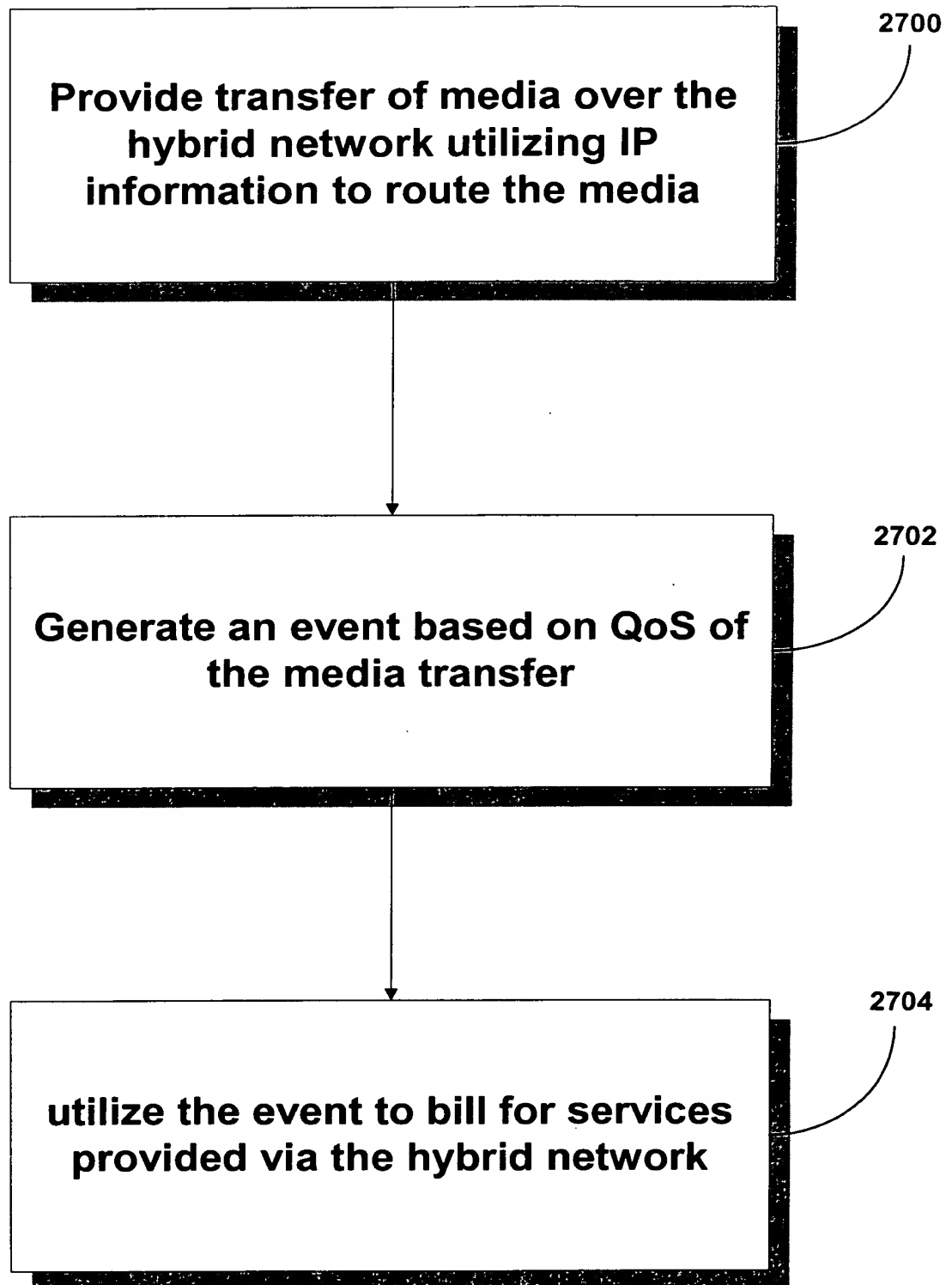


Figure 27

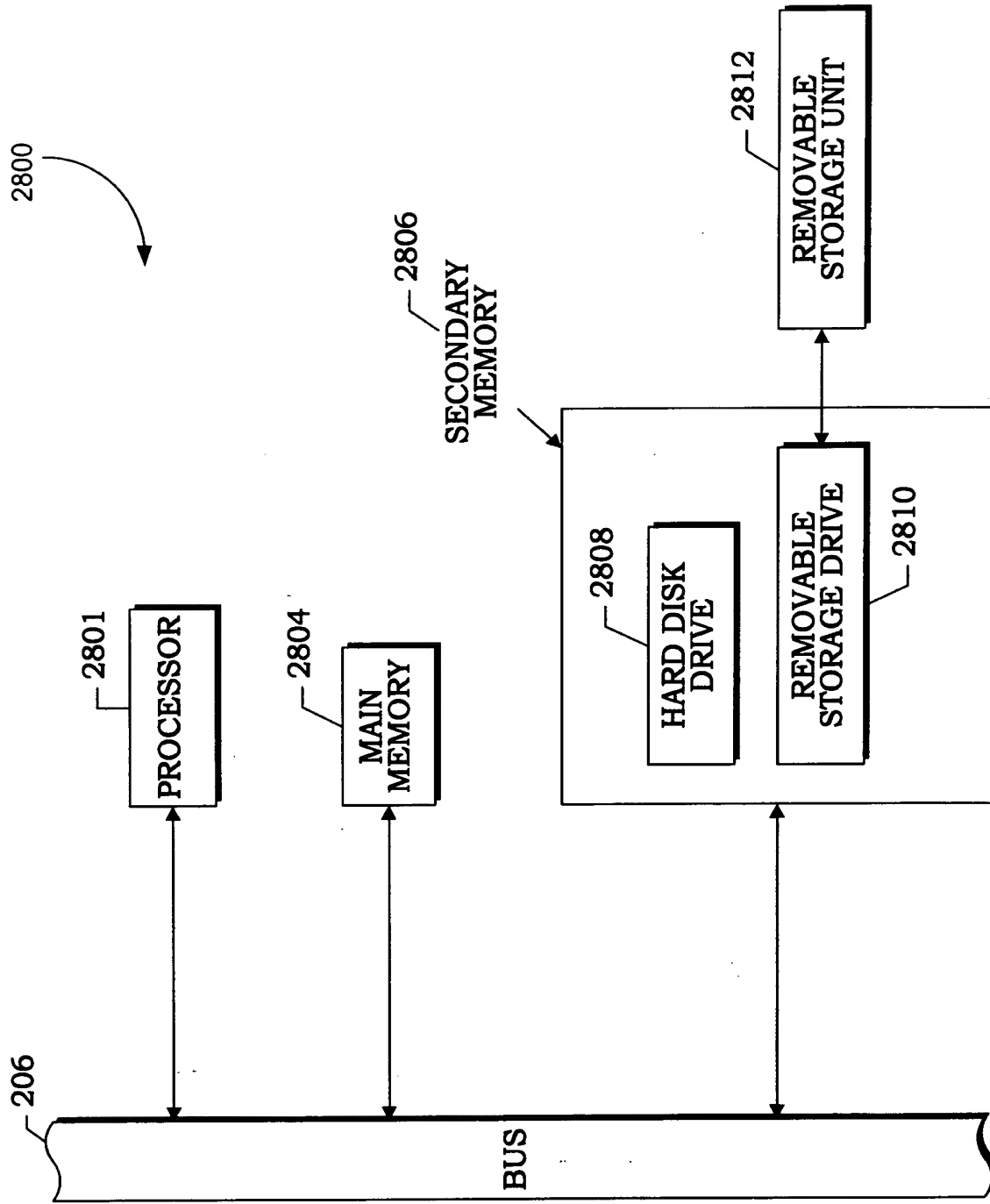


Figure 28

MSB																LSB															
BITS																00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
WORD	00	CR ID								CD ID																					
		TP1 BITS 0-15																													
	01	TP1 BITS 16-31																													
	02																														
	03	TP3 BITS 0-12												TP6 0-2																	
	04	TP6 BITS 3-12										TP7 BITS 0-5																			
	05	TP7 BITS 6-21																													
	06	OPL. ORIGINATING PORT 0-15																													
	07	OP	TPL. TERMINATING PORT 0-14																												
	08	TP	OTG. ORIGINATING TRUNK GROUP													TT															
	09	TERMINATING TRUNK GROUP (1-12)												TP3Q																	
	10	TP6Q	ACTION CODE						OTC				TTC																		
	11	ID1				ID2				ANI INDEX																					
	12	CLI 1				CLI 2				CLI 3				CLI 4																	
	13	CLI 5				CLI 6				CLI 7				CLI 8																	
	14	CLI 9				CLI 10				A1				A2																	
	15	A3				A4				A5				A6																	
	16	A7				A8				A9				A10																	
	17	A11				A12				A13				A14																	
	18	A15				A16				A17				A18																	
	19	A19				A20				A21				A22																	
	20	D1				D2				D3				D4																	
	21	D5				D6				D7				D8																	
	22	D9				D10				D11				D12																	
	23	D13				D14				D15				D16																	
	24	D17				PTD1				PTD2				PTD3																	
	25	PTD4				PTD5				PTD6				PTD7																	
	26	PTD8				PTD9				PTD10																					
	27	FC				TMC				KAT				TP7Q																	
	28	EC, ENTRY CODE								PD				ND ID				DIVID													
	29	D0		CC	IN		SC	CD	DE	DT			SA	NOCLI																	
	30	CN1				CN2				CN3				CN4																	
	31	ACIF				SS7 RELEASE CODE								NCIDSEQ				NL	RS												
BIT		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														

Figure 29

MSB										LSB						
BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																
WORD 00	CR ID						CD ID									
01	TP1 BITS 0-15															
02	TP1 BITS 16-31															
03	TP3 BITS 0-12												TP6 0-2			
04	TP6 BITS 3-12									TP7 BITS 0-5						
05	TP7 BITS 6-21															
06	OPL. ORIGINATING PORT 0-15															
07	OP	TPL. TERMINATING PORT 0-14														
08	TP	OTG. ORIGINATING TRUNK GROUP													TT	
09	TERMINATING TRUNK GROUP (1-12)												TP3Q			
10	TP6Q	ACTION CODE					OTC				TTC					
11	ID1			ID2			ANI INDEX									
12	CLI 1			CLI 2			CLI 3				CLI 4					
13	CLI 5			CLI 6			CLI 7				CLI 8					
14	CLI 9			CLI 10			CLI11				CLI12					
15	CLI13			CLI14			CLI15				A1					
16	A2			A3			A4				A5					
17	A6			A7			A8				A9					
18	A10			A11			A12				A13					
19	A14			A15			A16				A17					
20	A18			A19			A20				A21					
21	A22			A23			A24				A25					
22	A26			A27			A28				A29					
23	A30			A31			A32				A33					
24	A34			A35			A36				A37					
25	A38			A39			A40				A41					
26	A42			A43			A44				A45					
27	FC			TMC			KAT				TP7Q					
28	EC, ENTRY CODE						PD			ND ID			DIVID			
29	D0	MN	CC	IN		SC	CD	DE	DT			SA	NOCLI			
30	CN1			CN2			CN3					CN4				
31	ACIF			SS7 RELEASE CODE							NCIDSEQ			NL	RS	
BIT 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																

Figure 30

MSB																LSB	
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
WORD	32																
	33																
	34	ID1				ID2				ID3				ID4			
	35	ID5				ID6				ID7				ID8			
	36	ID9				ID10				ID11				ID12			
	37	ID13				ID14				ID15				ID16			
	38	ID17				ID18				ID19				ID20			
	39	ID21				ID22				ID23				ID24			
	40	ID25				PTD1				PTD2				PTD3			
	41	PTD4				PTD5				PTD6				PTD7			
	42	PTD8				PTD9				PTD10				PTD11			
	43	PTD12				PTD13				PTD14				PTD15			
	44	EIR CALL TYPE								OVFAL							CB
	45	OVFCL				DTA 1				DTA 2				DTA 3			
	46	DTA 4				DTA 5				DTA 6				DTA 7			
	47	DTA 8				DTA 9				DTA 10				DTA 11			
	48	DTA 12				DTA 13				DTA 14				DTA 15			
	49	OVFC						DTAC								NCID	
	50	NETWORK CALL IDENTIFIER (NCID)															
	51	NETWORK CALL IDENTIFIER (NCID)															
	52	NETWORK CALL IDENTIFIER (NCID)															
	53	NETWORK CALL IDENTIFIER (NCID)															
	54	NETWORK CALL IDENTIFIER (NCID)															
	55																
	56																
	57																
	58																
	59													OUS TYPE		OUIE	
	60	OUIE COUNT CONT.												OVFCS			
	61	ORIGINATING NX64 BITMAP (1-16)															
	62	ORIG NX64 BITMAP(17-24)								TERM NX64 BITMAP(17-24)							
	63	TERMINATING NX64 BITMAP(9-24)															
BIT		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

Figure 31

MSB																LSB	
BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																	
WORD 00	CR ID								CD ID								
01	TP1 BITS 0-15																
02	TP1 BITS 16-31																
03	TP4 BITS 0-12												TP6 0-2				
04	TP6 BITS 3-12										TP7 BITS 0-5						
05	TP7 BITS 6-21																
06	OPL. ORIGINATING PORT 0-15																
07	OP	TPL. TERMINATING PORT 0-14															
08	TP	OTG. ORIGINATING TRUNK GROUP														TT	
09	TERMINAGING TRUNK GROUP (1-12)												TP3Q				
10	TP6Q	ACTION CODE						OTC				TTC					
11	ID1			ID2			ONACC				TNACC						
12	CLI 1			CLI 2			CLI 3				CLI 4						
13	CLI 5			CLI 6			CLI 7				CLI 8						
14	CLI 9			CLI 10			A1				A2						
15	A3			A4			A5				A6						
16	A7			A8			A9				A10						
17	A11			A12			A13				A14						
18	A15			A16			A17				A18						
19	A19			A20			A21				A22						
20	D1			D2			D3				D4						
21	D5			D6			D7				D8						
22	D9			D10			D11				D12						
23	D13			D14			D15				D16						
24	D17			OPIN													
25	OPIN	TPS BITS 0-12															
26	RN1			RN2			RN3				RN4						
27	FC			TMC			KAT				TP7Q						
28	EC, ENTRY CODE						PD			ND ID			DIVID				
29	D0	CC	IN	SC	CD	DE	DT	PP	XC	SA	NOCLI						
30	CN1			CN2			CN3				CN4						
31	ACIF			SS7 RELEASE CODE							NCIDSEQ			NL	RS		
BITS 00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15																	

Figure 32

MSB																LSB															
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														
WORD	00	CR ID								CD ID																					
	01	TP1 BITS 0-15																													
	02	TP1 BITS 16-31																													
	03	TP4 BITS 0-12												TP6 0-2																	
	04	TP6 BITS 3-12										TP7 BITS 0-5																			
	05	TP7 BITS 6-21																													
	06	OPL. ORIGINATING PORT 0-15																													
	07	OP	TPL. TERMINATING PORT 0-14																												
	08	TP	OTG. ORIGINATING TRUNK GROUP													TT															
	09	TERMINAGING TRUNK GROUP (1-12)												TP3Q																	
	10	TP6Q	ACTION CODE						OTC				TTC																		
	11	ID1				ID2				ONACC				TNACC																	
	12	CLI 1				CLI 2				CLI 3				CLI 4																	
	13	CLI 5				CLI 6				CLI 7				CLI 8																	
	14	CLI 9				CLI 10				CLI 11				CLI 12																	
	15	CLI 13				CLI 14				CLI 15				A1																	
	16	A2				A3				A4				A5																	
	17	A6				A7				A8				A9																	
	18	A10				A11				A12				A13																	
	19	A14				A15				A16				A17																	
	20	A18				A19				A20				A21																	
	21	A22				A23				A24				A25																	
	22	A26				A27				A28				A29																	
	23	A30				A31				A32				A33																	
	24	A34				A35				A36				A37																	
	25	A38				A39				A40				A41																	
	26	A42				A43				A44				A45																	
	27	FC				TNC				KAT				TF7Q																	
	28	EC, ENTRY CODE								PD				ND ID				DIVID													
	29	DO	MM	CC	IN		SC	CD	DE	DT	PP	XC	SA	NOCLI																	
	30	CN1				CN2				CN3				CN4																	
	31	ACIF				SS7 RELEASE CODE								NCIDSEQ				NL	RS												
BITS		00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15														
EOSR/EOSR FORMAT																															

Figure 33

MSB										LSB						
BITS	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
32	T&C GUEST 1								T&C GUEST 2							
33	T&C GUEST 3								T&C GUEST 4							
34	ID1				ID2				ID3				ID4			
35	ID5				ID6				ID7				ID8			
36	ID9				ID10				ID11				ID12			
37	ID13				ID14				ID15				ID16			
38	ID17				ID18				ID19				ID20			
39	ID21				ID22				ID23				ID24			
40	ID25				PTD1				PTD2				PTD3			
41	PTD4				PTD5				PTD6				PTD7			
42	PTD8				PTD9				PTD10				PTD11			
43	PTD12				PTD13				PTD14				PTD15			
44	EIR CALL TYPE								OVFAL							CB
45	OVFCL				DTA 1				DTA 2				DTA 3			
46	DTA 4				DTA 5				DTA 6				DTA 7			
47	DTA 8				DTA 9				DTA 10				DTA 11			
48	DTA 12				DTA 13				DTA 14				DTA 15			
49	OVFC						DTAC								NCID	
50	NETWORK CALL IDENTIFIER (NCID)															
51	NETWORK CALL IDENTIFIER (NCID)															
52	NETWORK CALL IDENTIFIER (NCID)															
53	NETWORK CALL IDENTIFIER (NCID)															
54	NETWORK CALL IDENTIFIER (NCID)															
55	T&C ROOM 1								T&C ROOM 2							
56	T&C ROOM 3								T&C ROOM 4							
57	T&C ROOM 5								T&C ROOM 6							
58	EAC1				EAC2				EAC3				EAC4			
59	EAC5				EAC6				EAC7				EAC8			
60	EAC9				EAC10				EAC11				EAC12			
61	OPIN													OVFCS		
62	TP5-OPERATOR RELEASE															
63	RN1				RN2				RN3				RN4			
BIT	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15

Figure 34

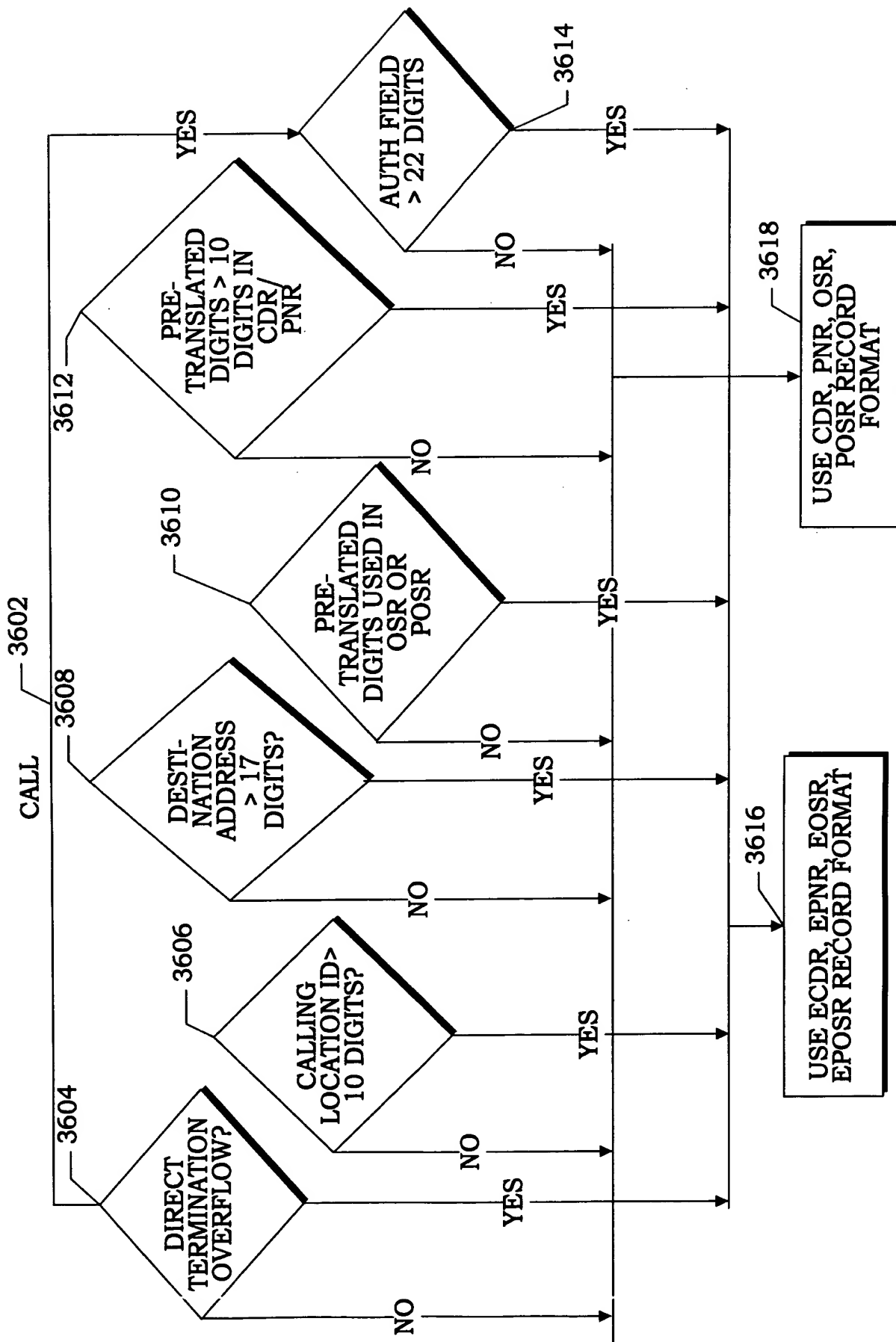


Figure 36

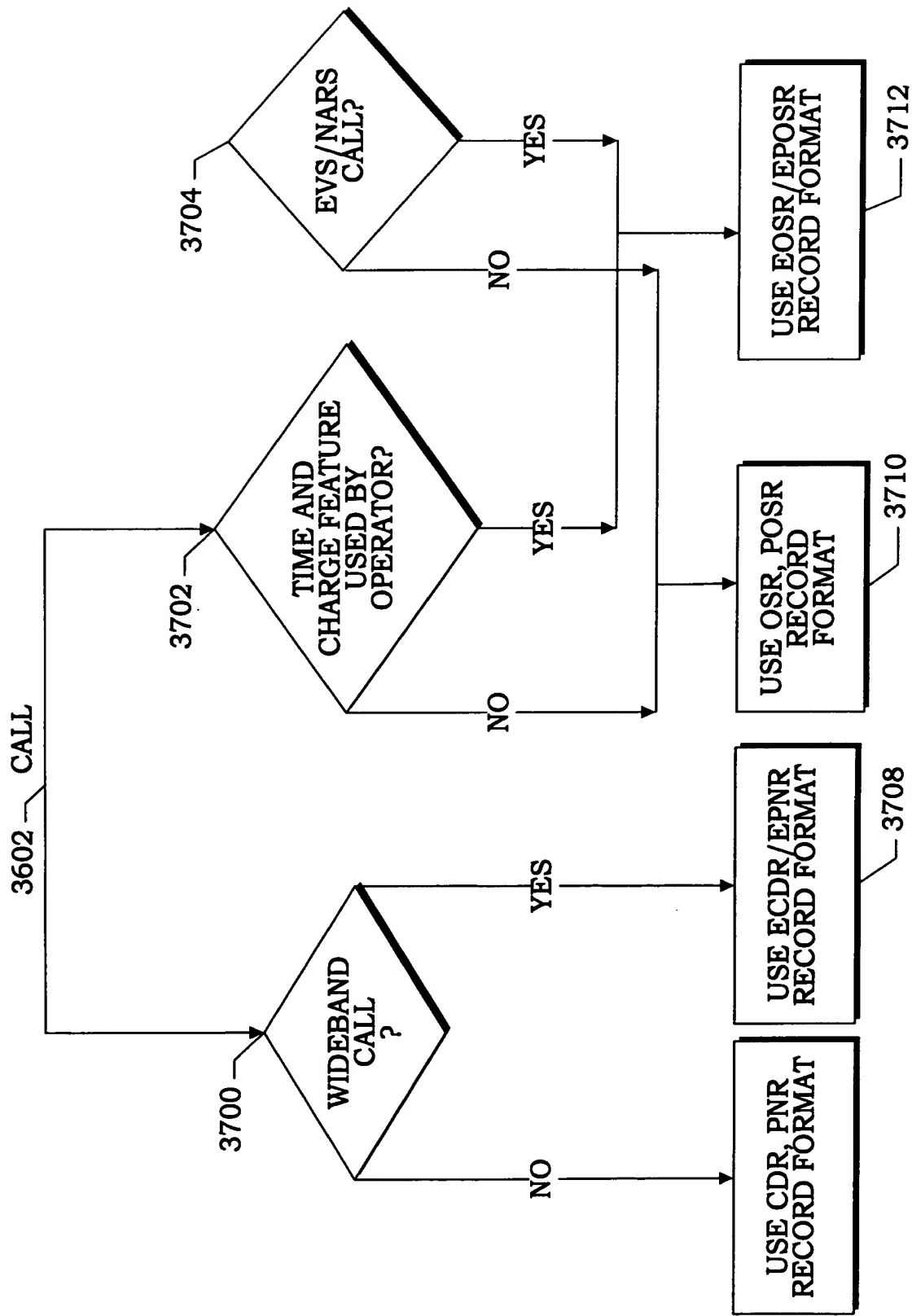


Figure 37

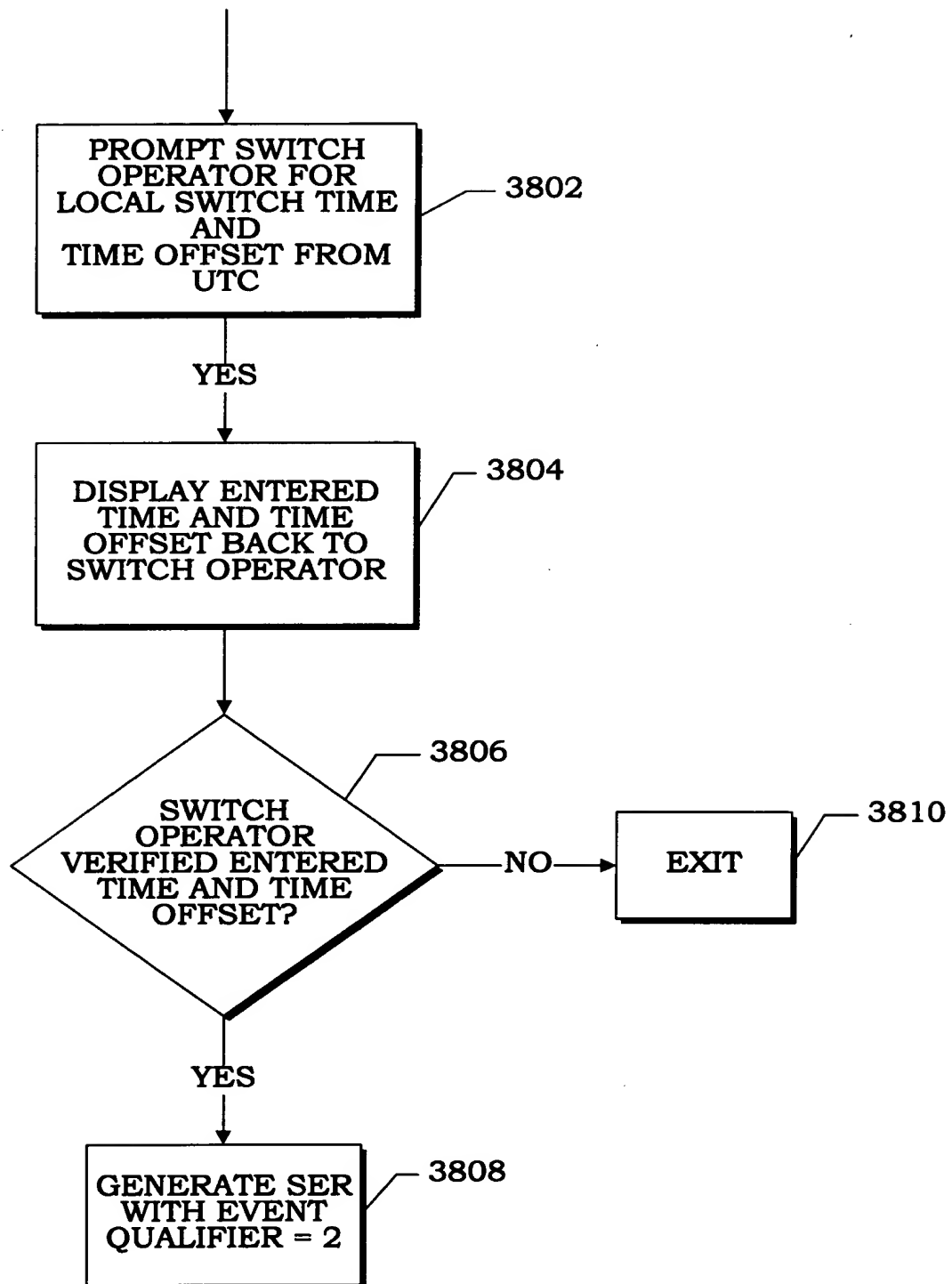


Figure 38

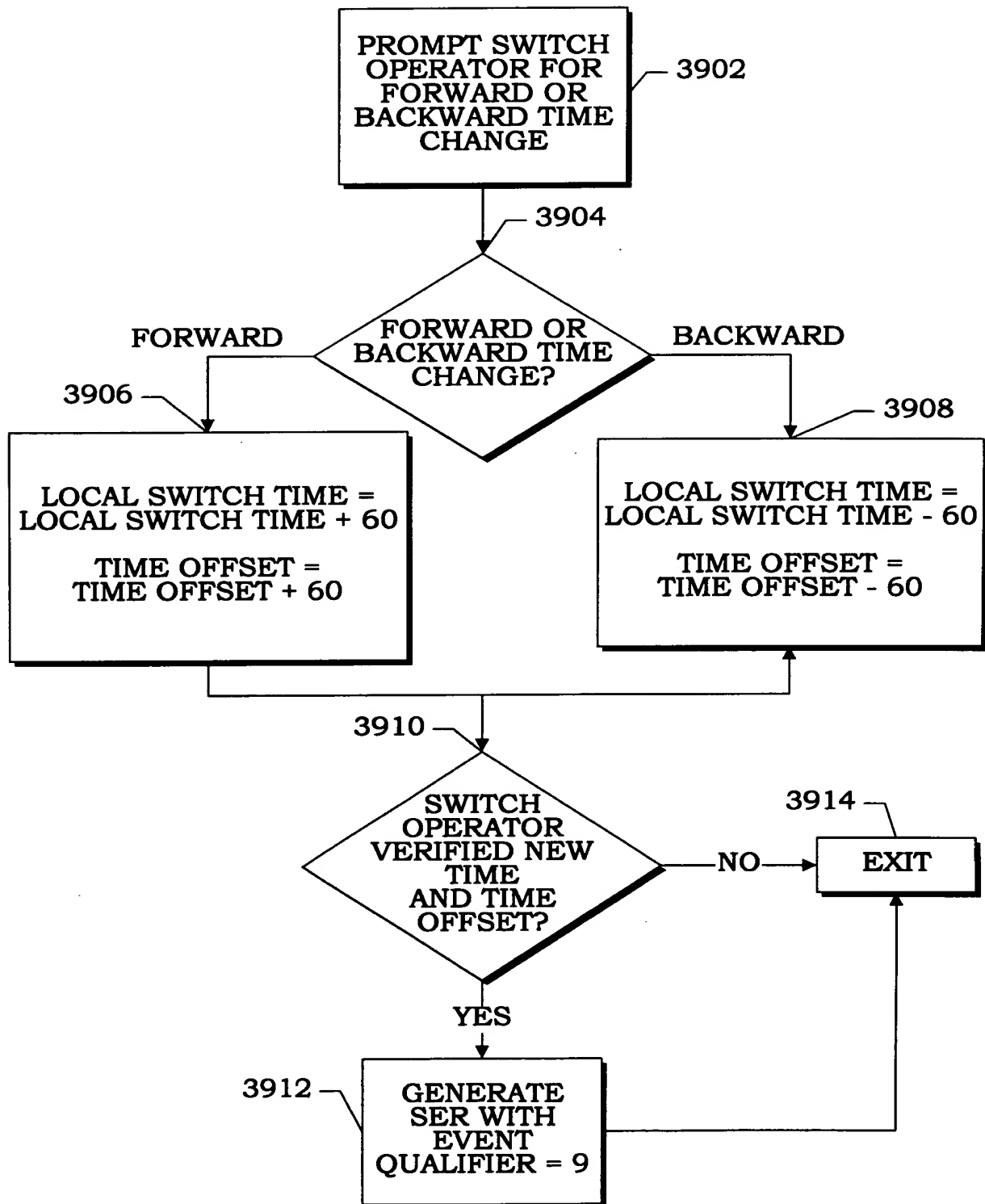


Figure 39

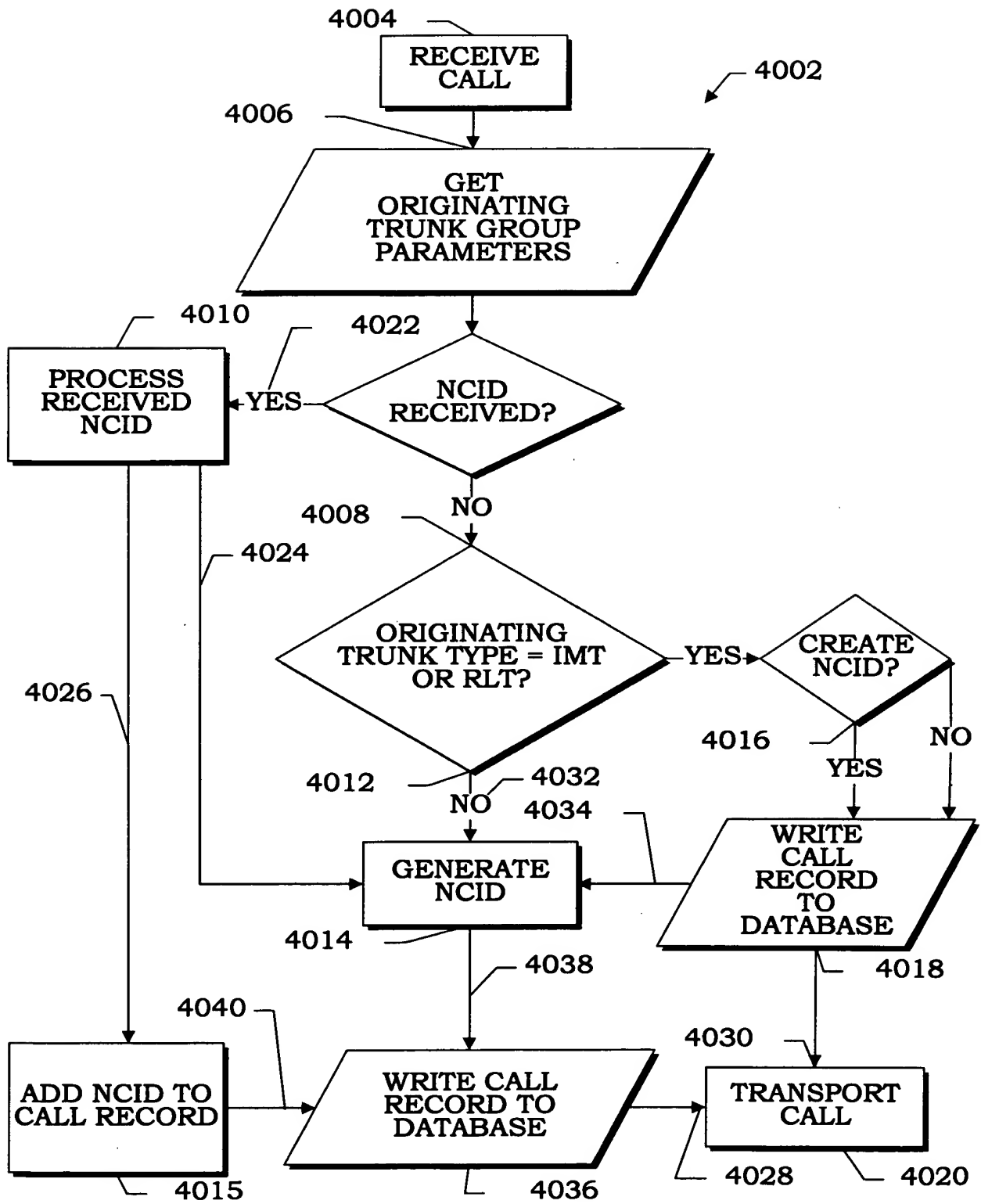


Figure 40

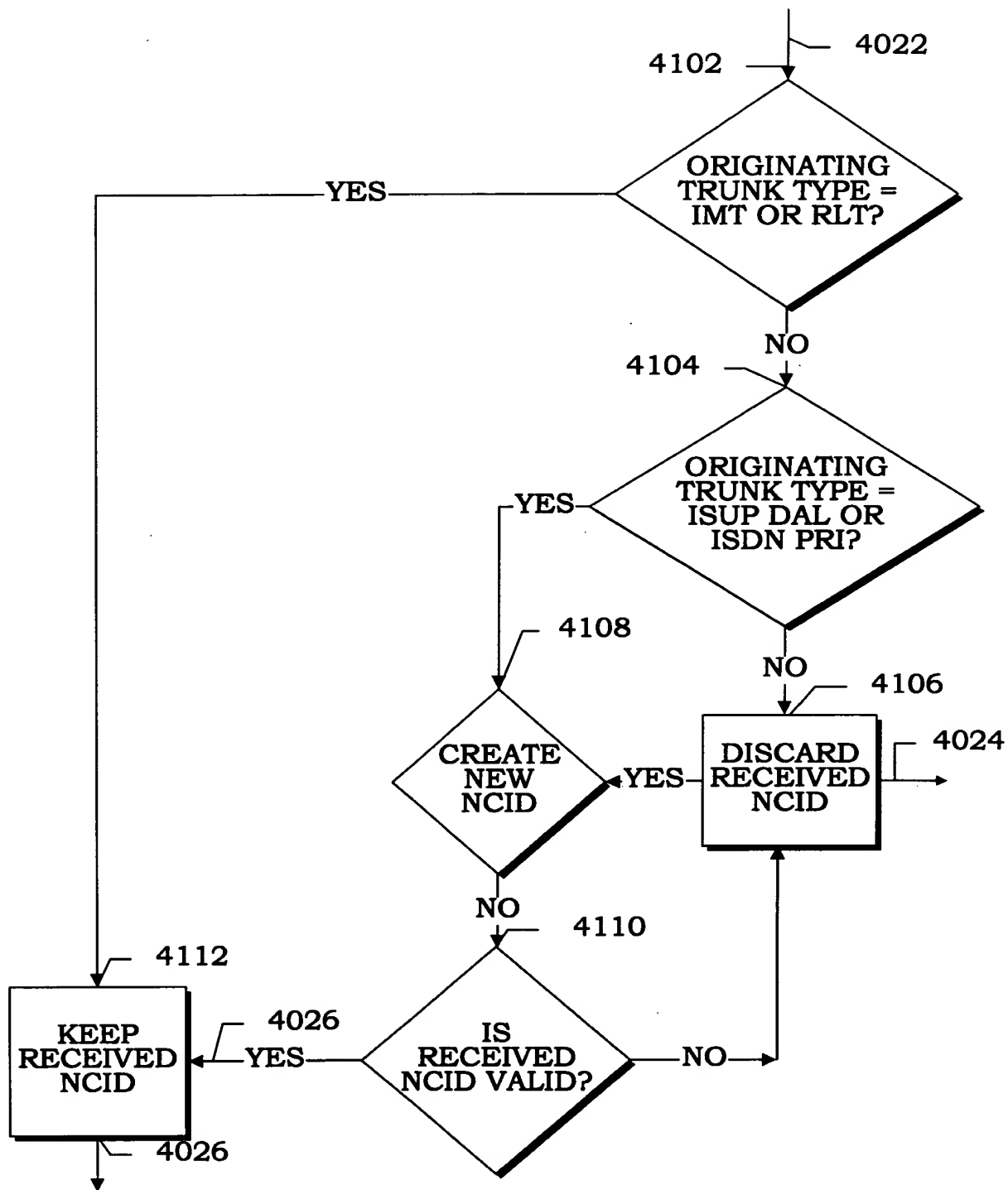


Figure 41

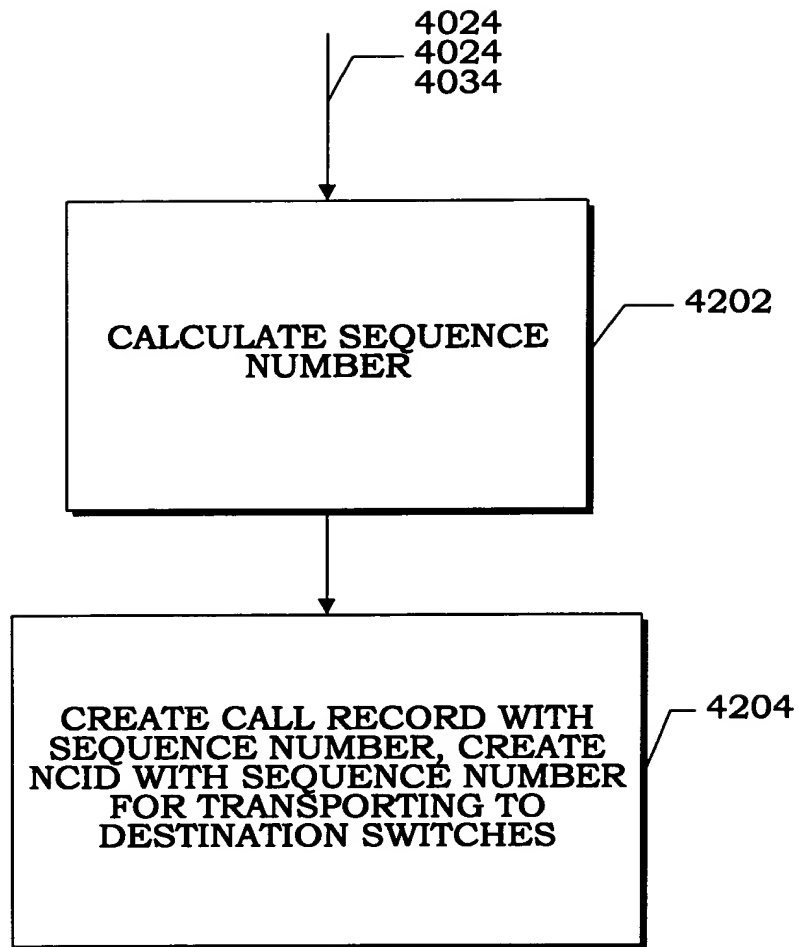


Figure 42

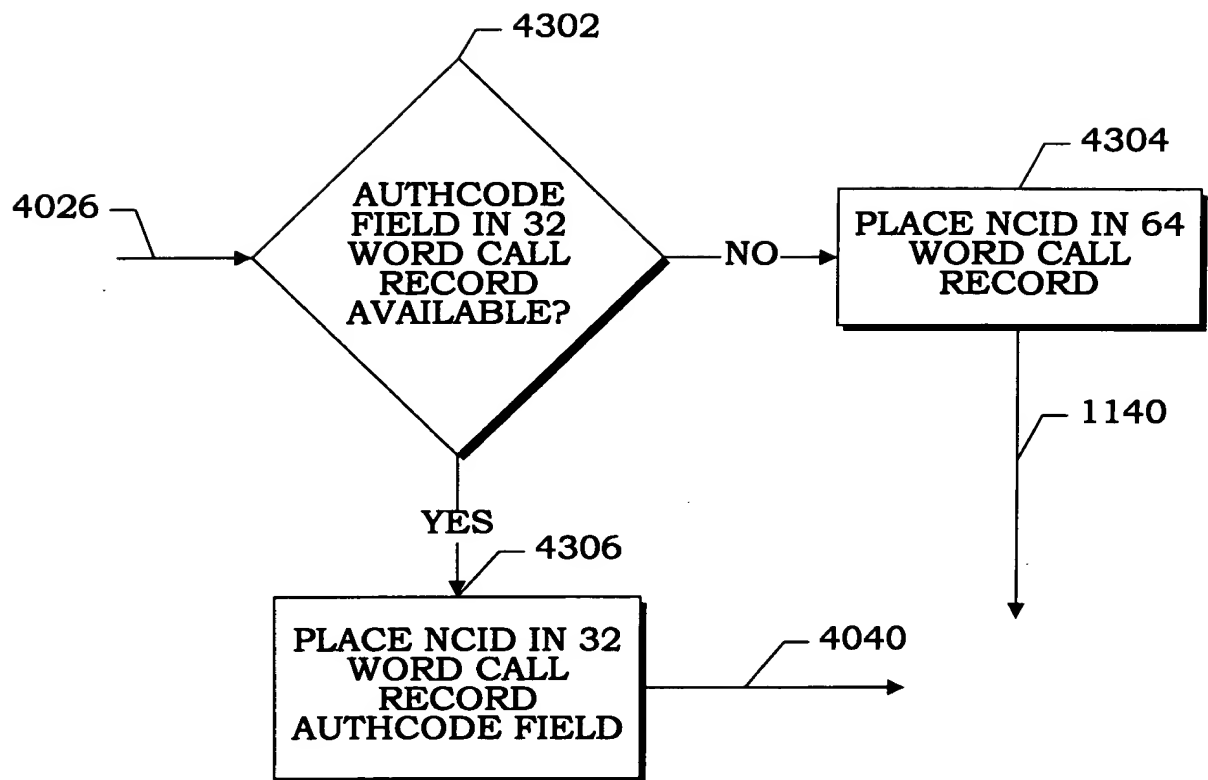


Figure 43

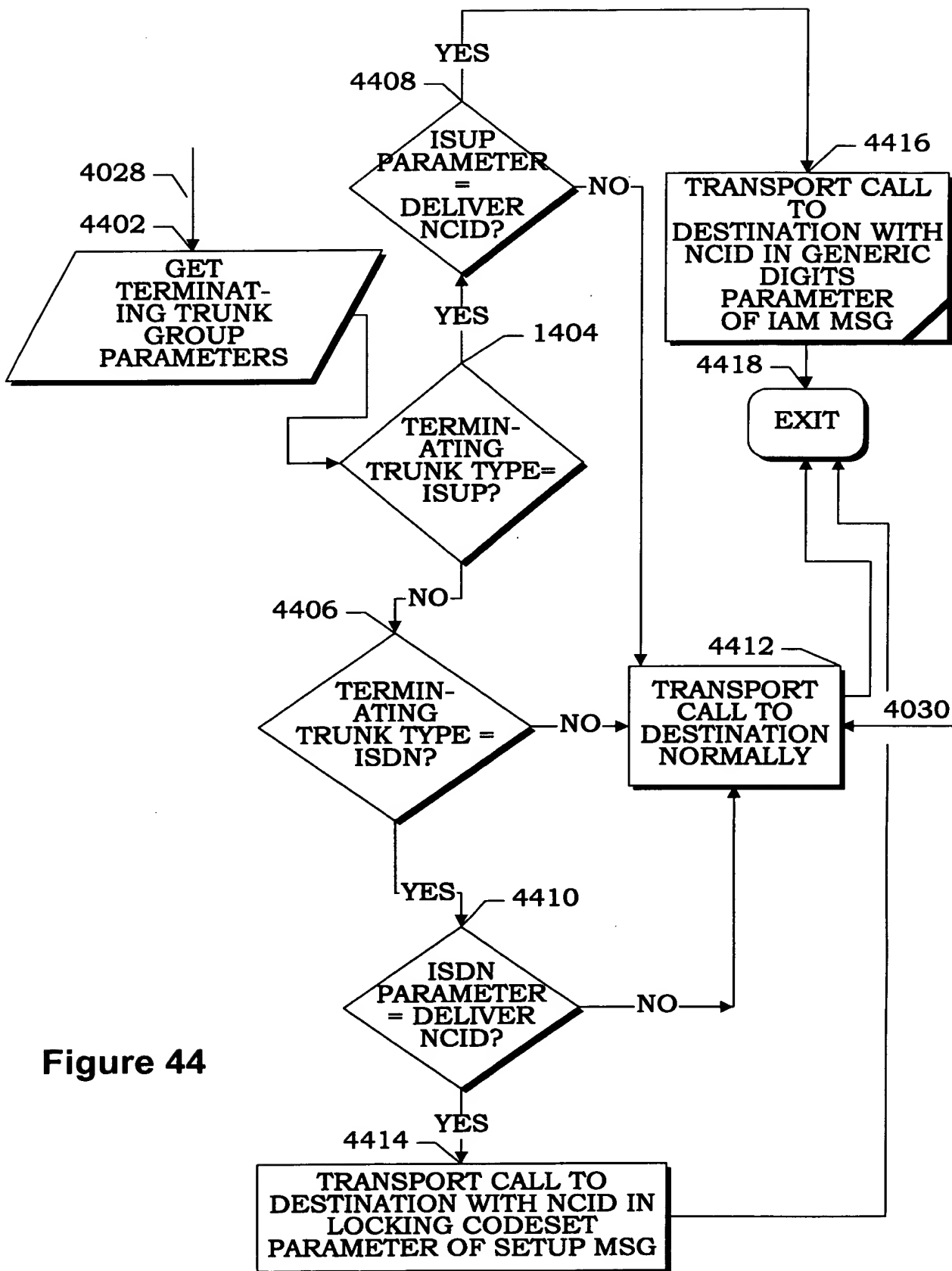


Figure 44

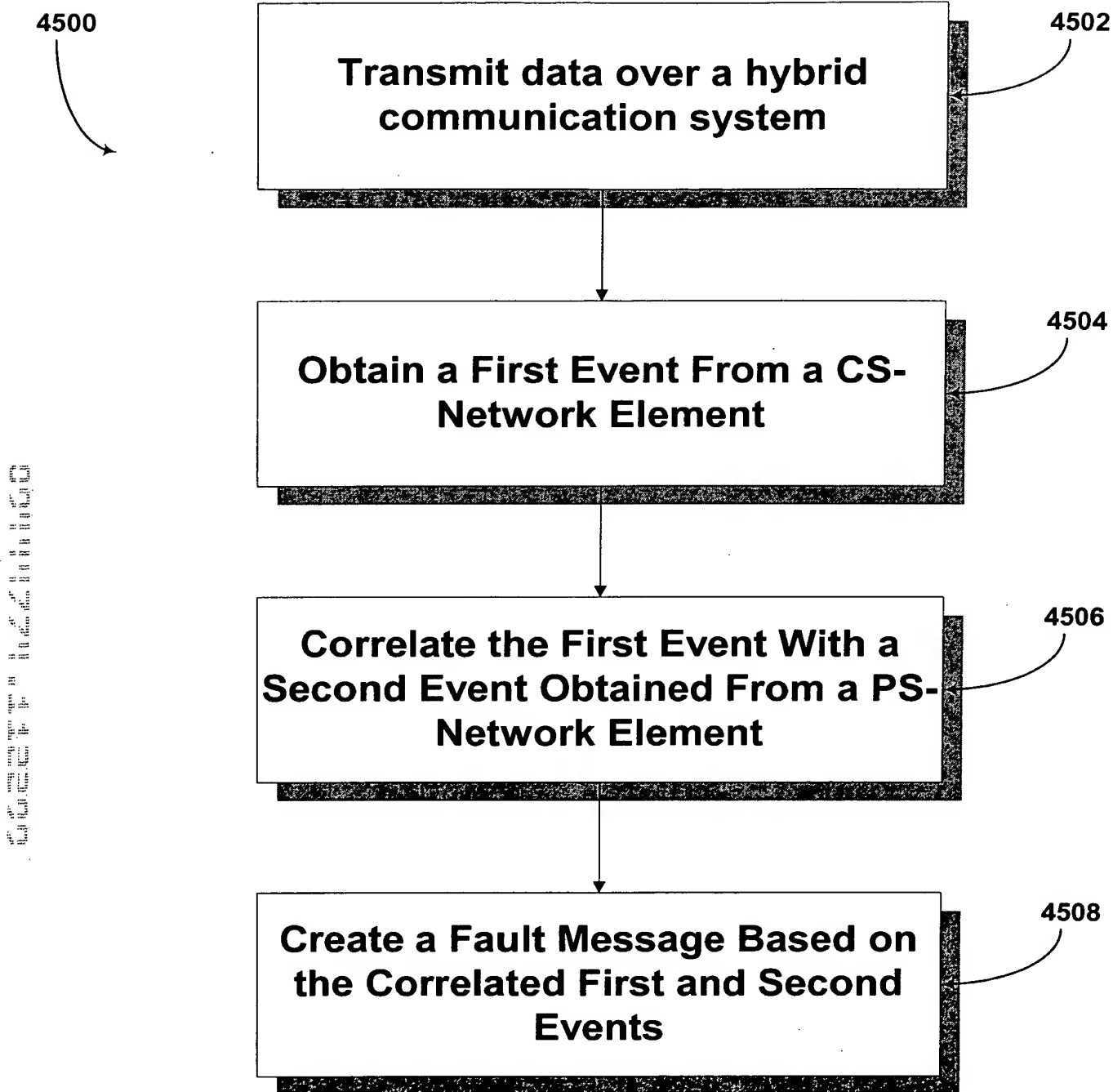


Figure 45

4600

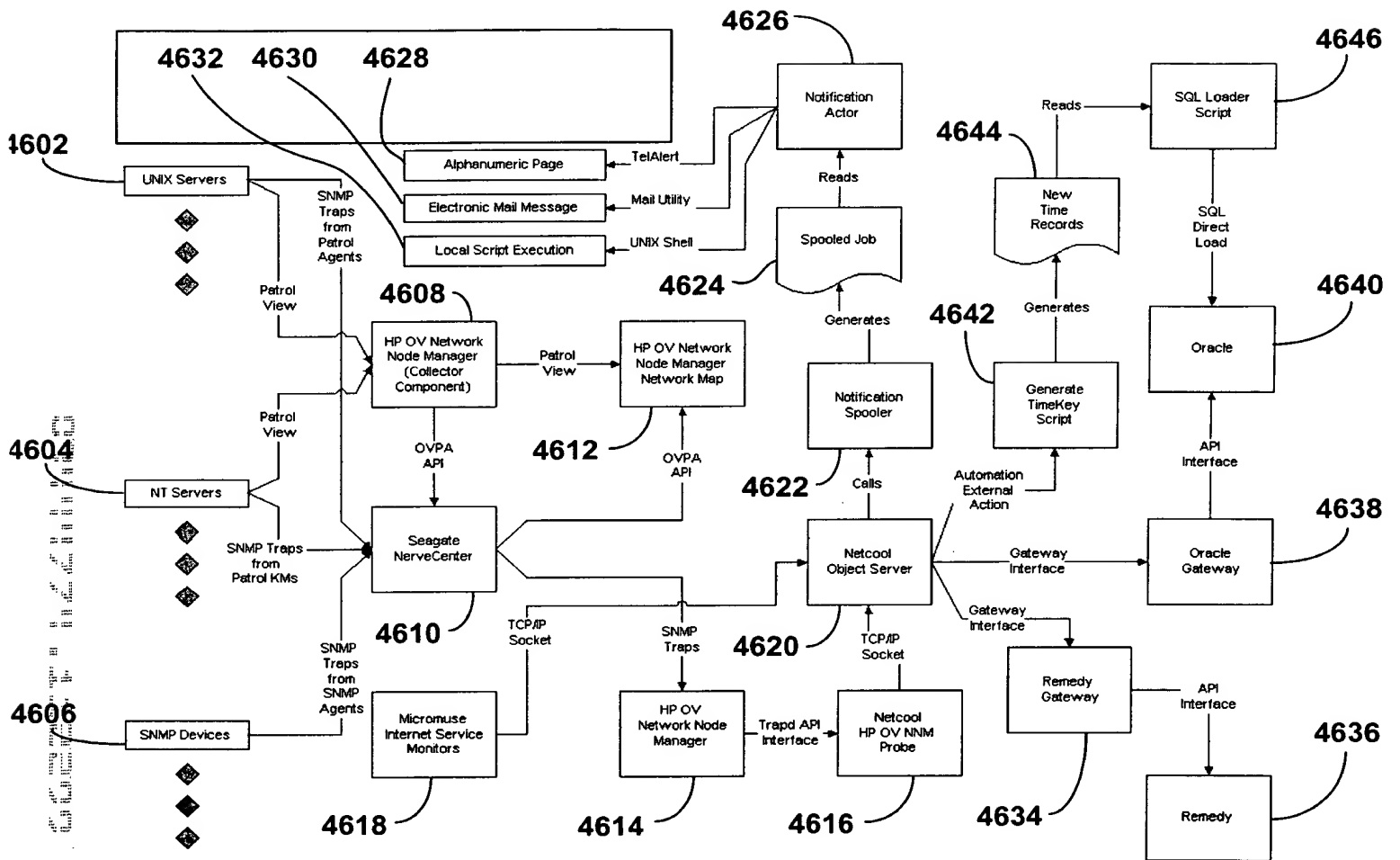


Figure 46

4700
4702
4704
4706
4708
4710

4700

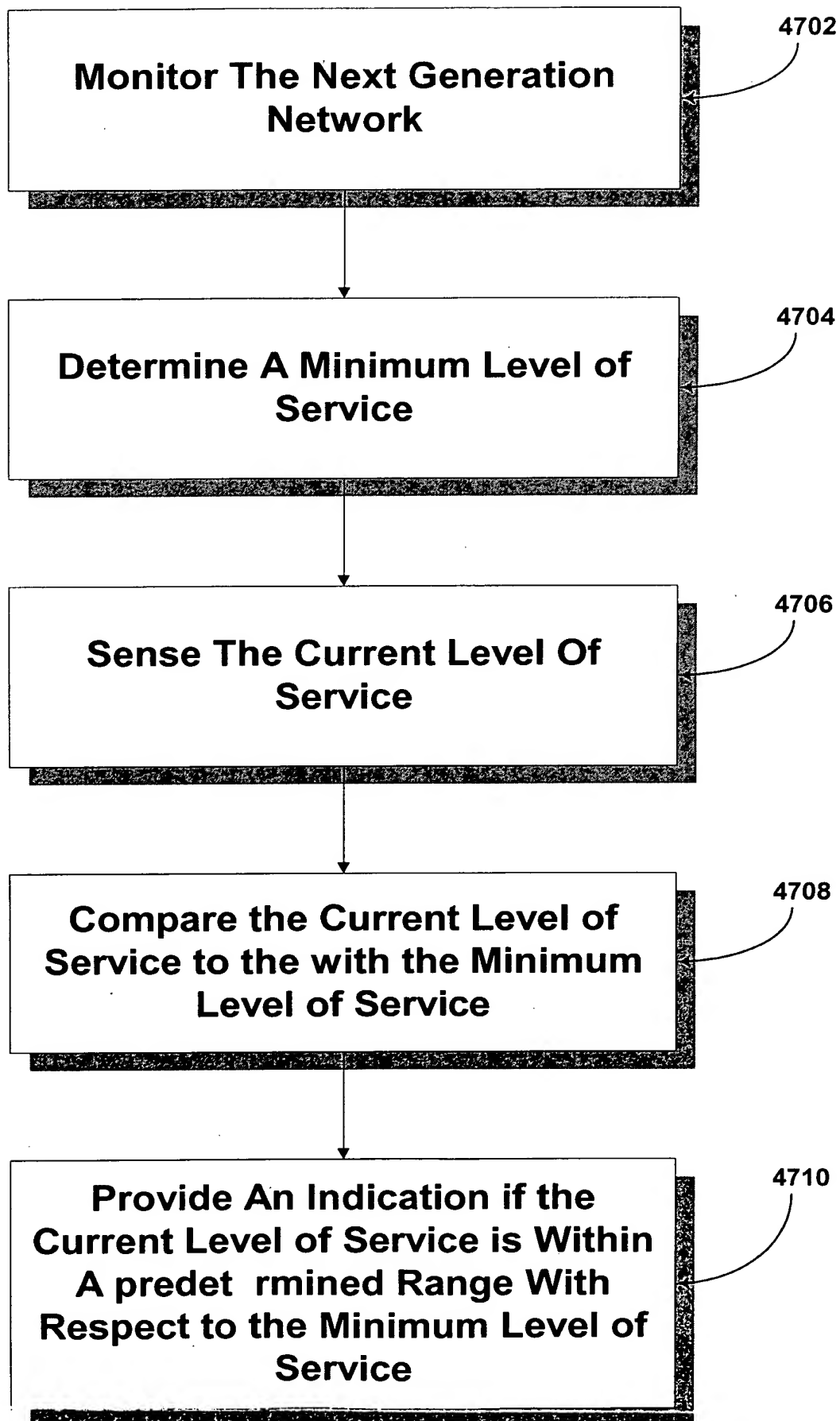


Figure 47

4800 4802 4804 4806 4808

4800

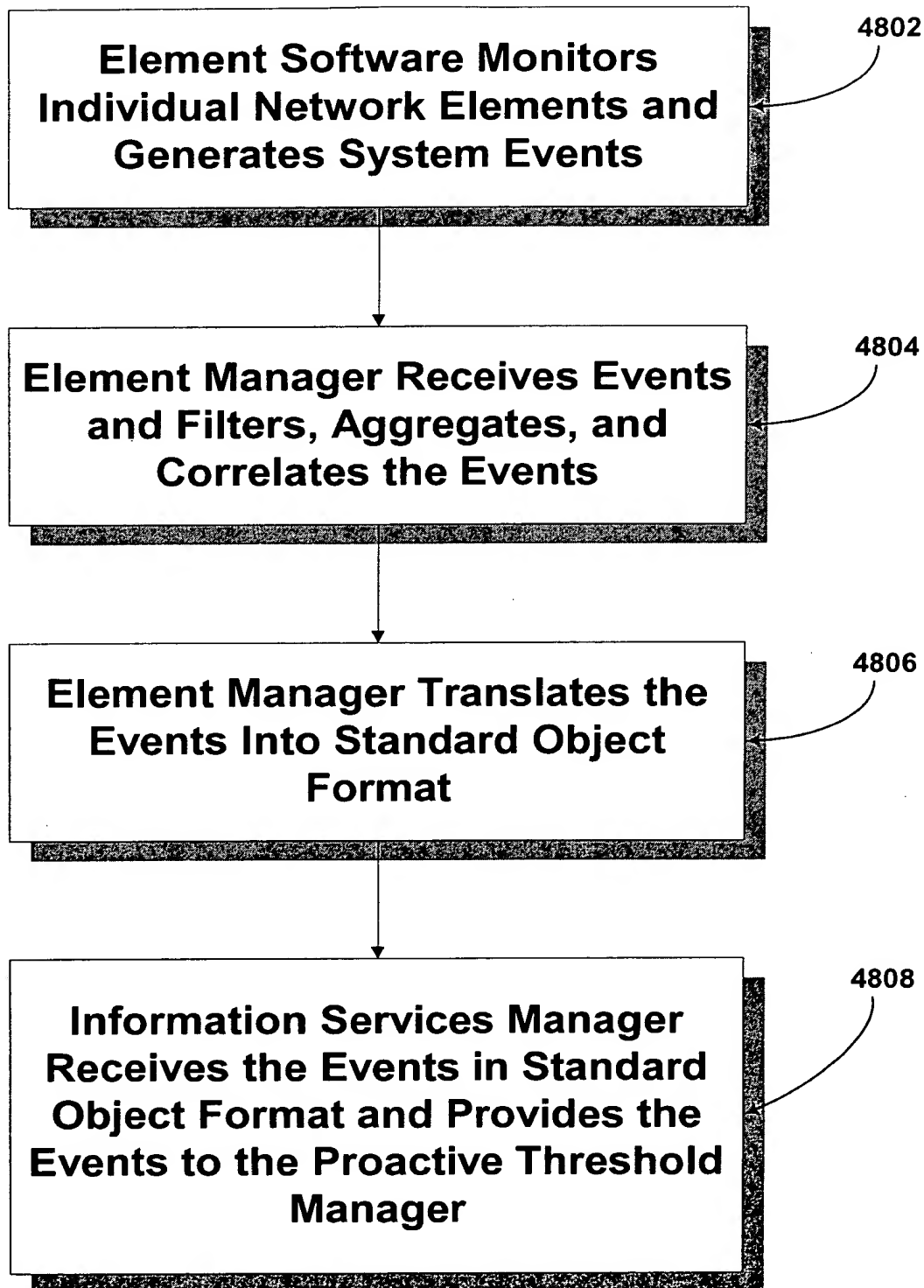


Figure 48

4900
4902
4904
4906
4908

4900

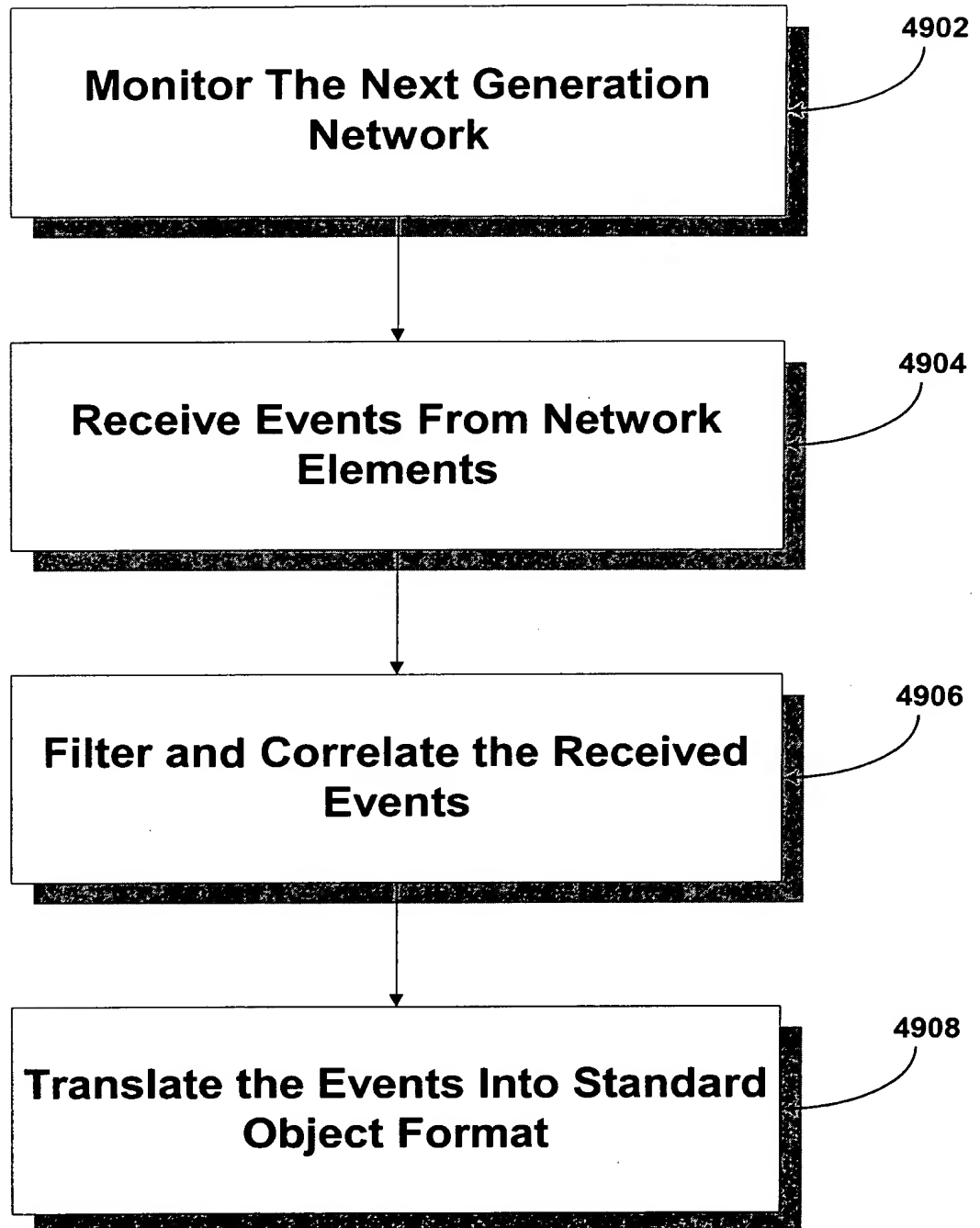


Figure 49

5000

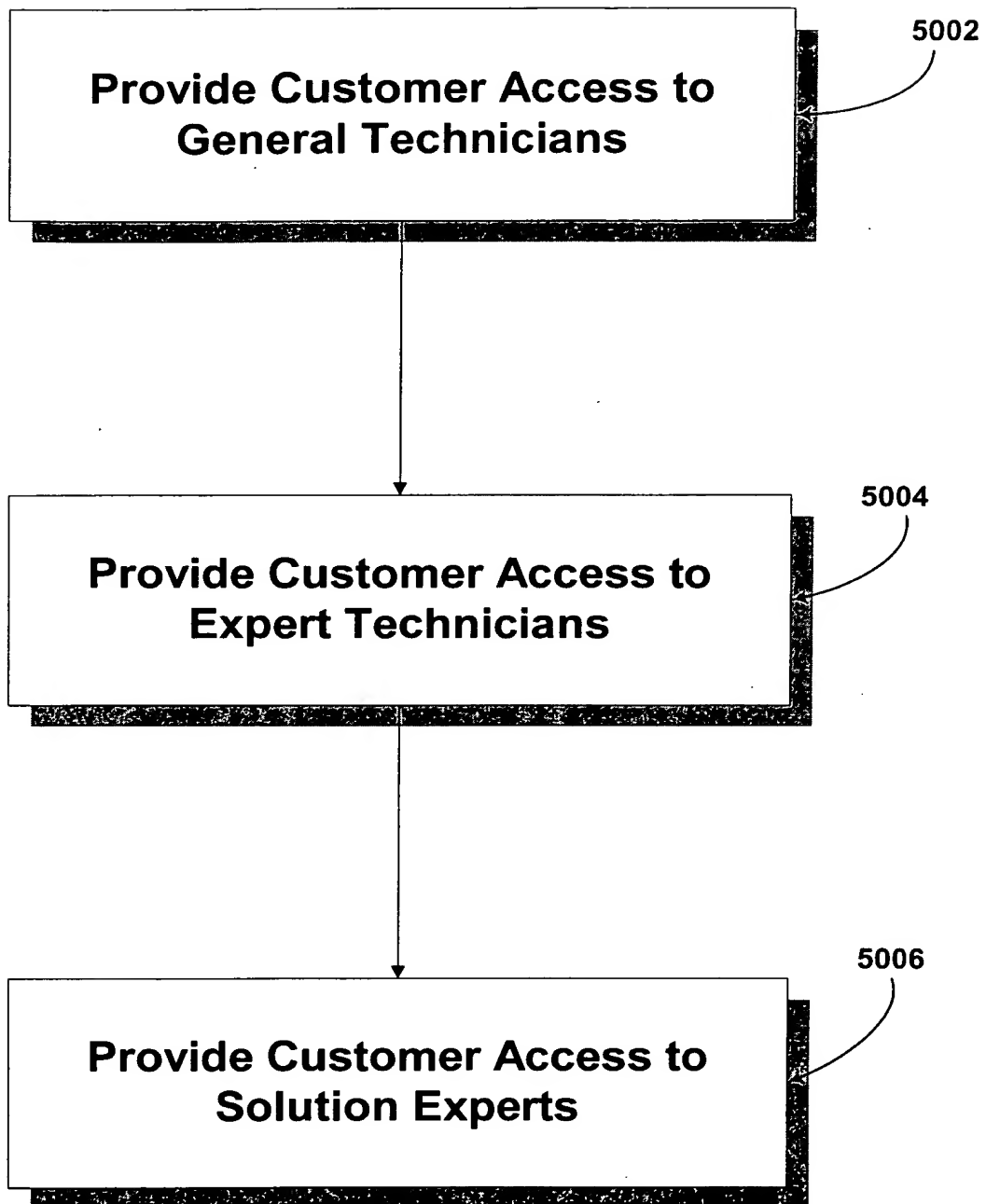


Figure 50

5100

5100

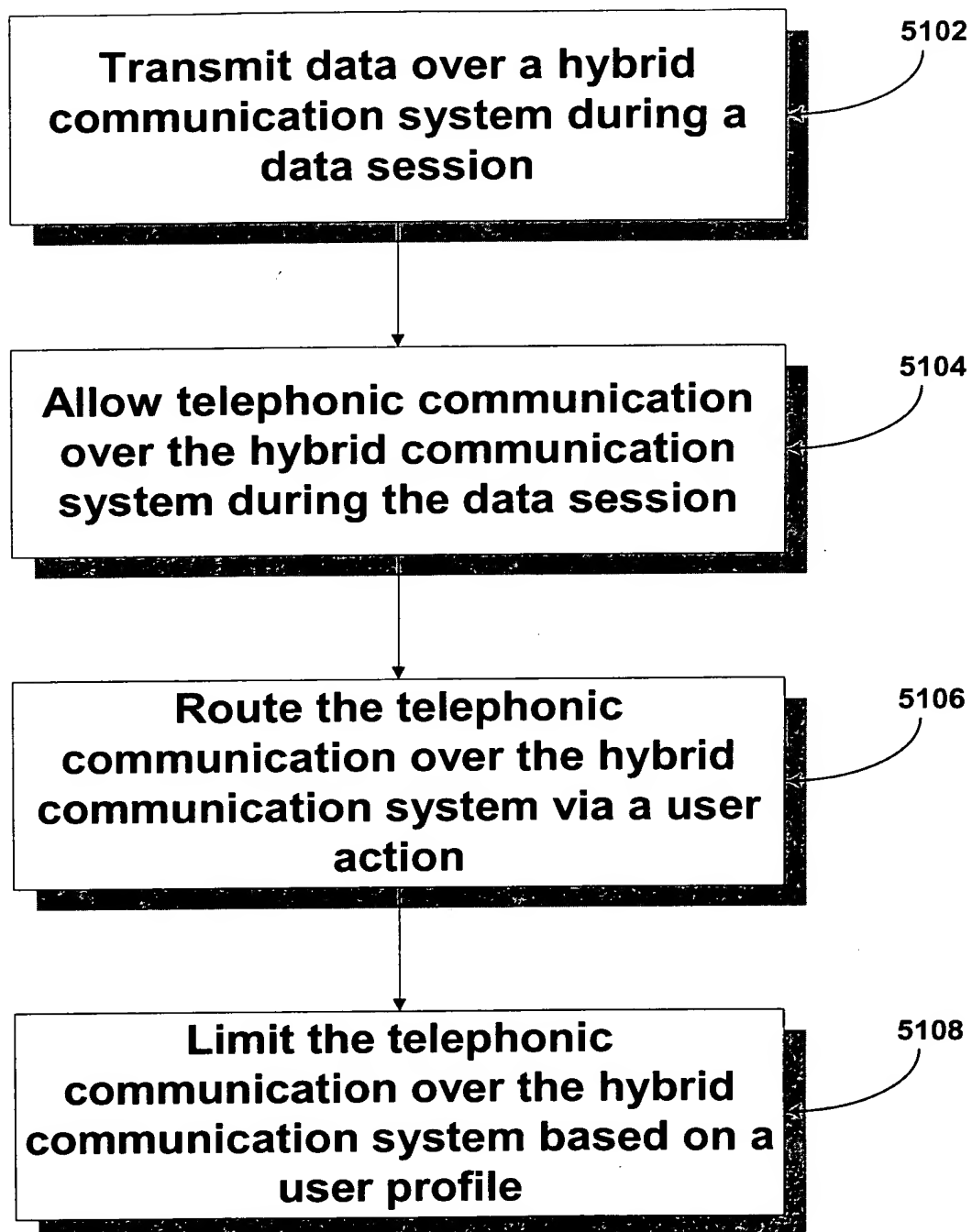


Figure 51

5200

5200

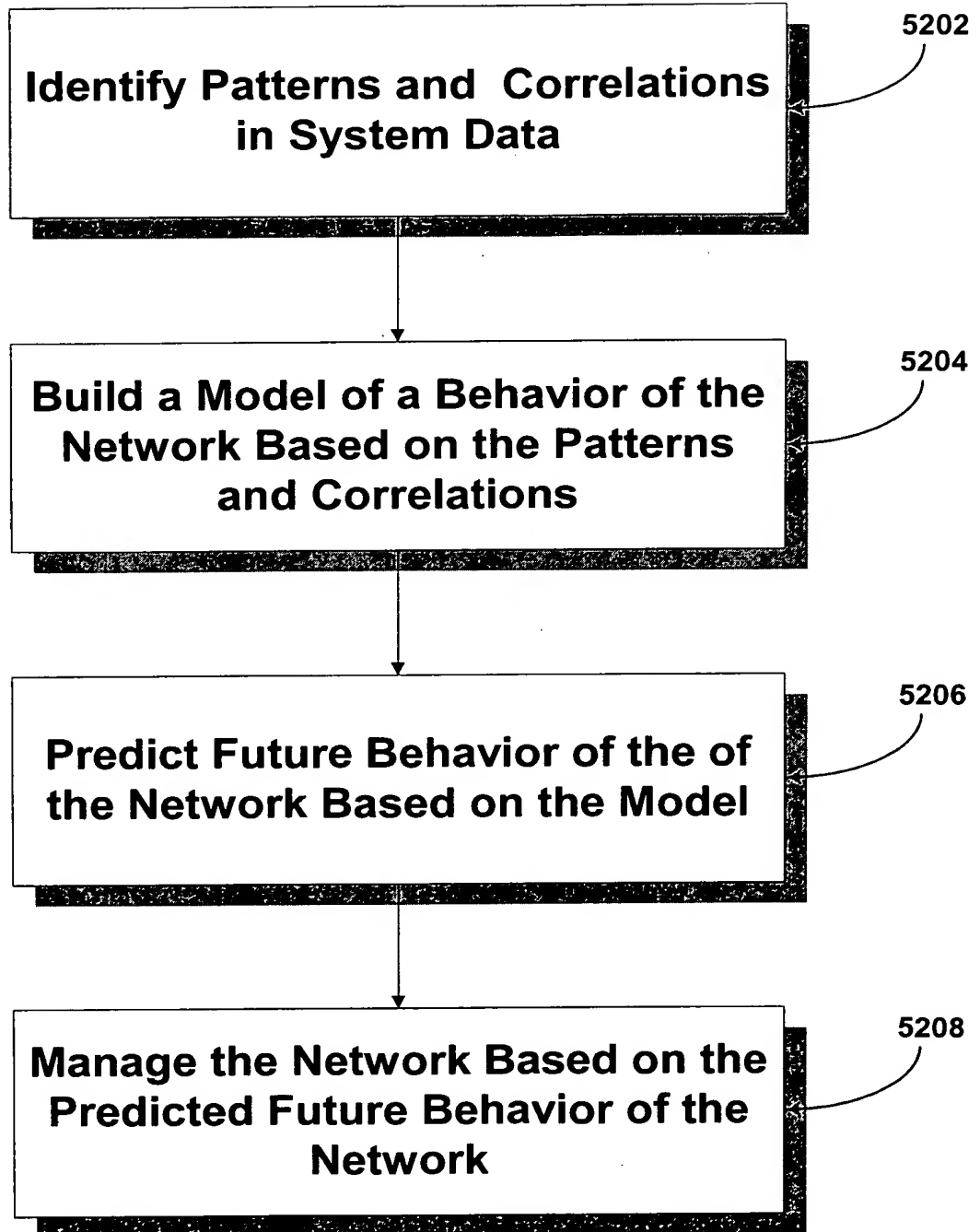


Figure 52

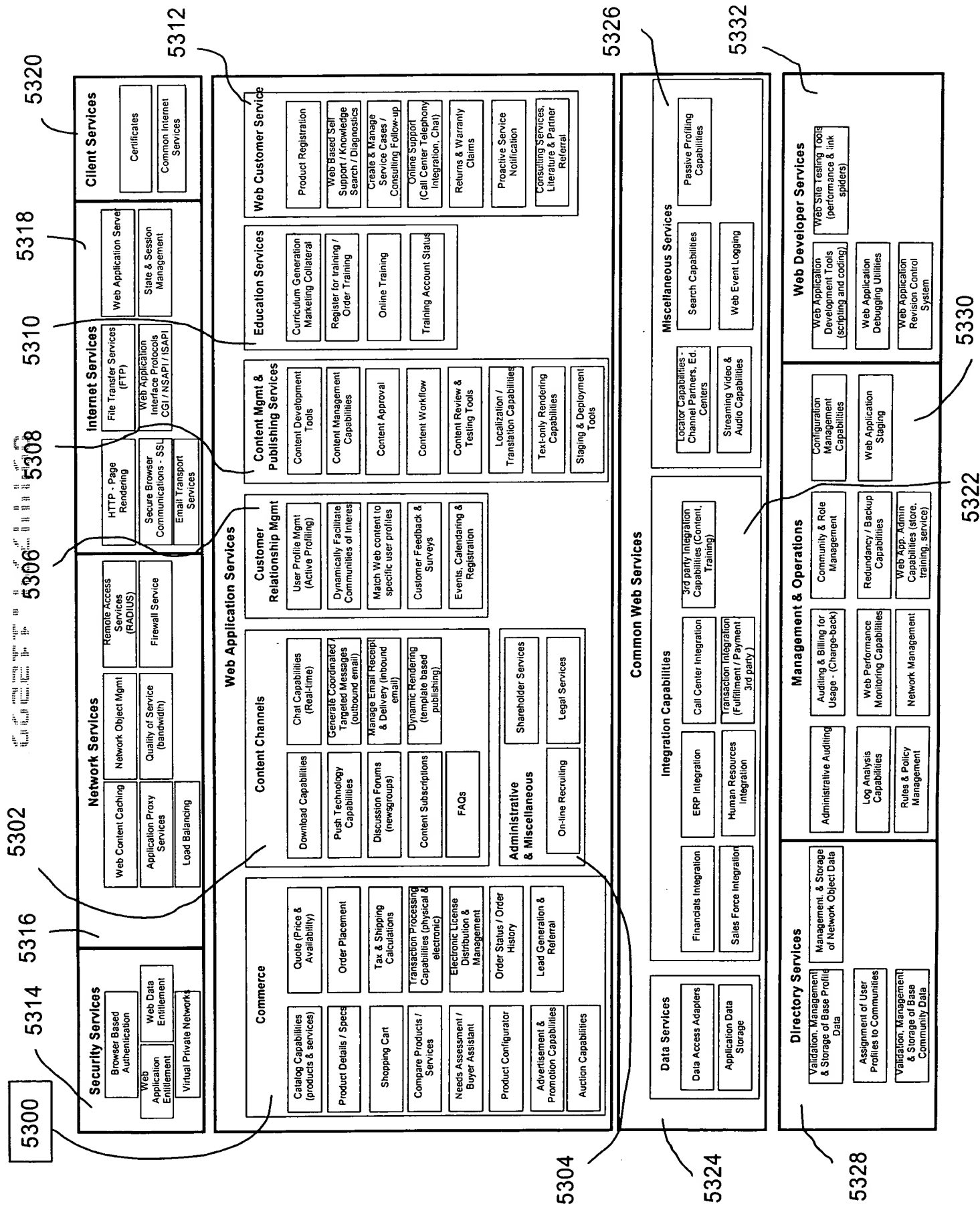


Figure 53

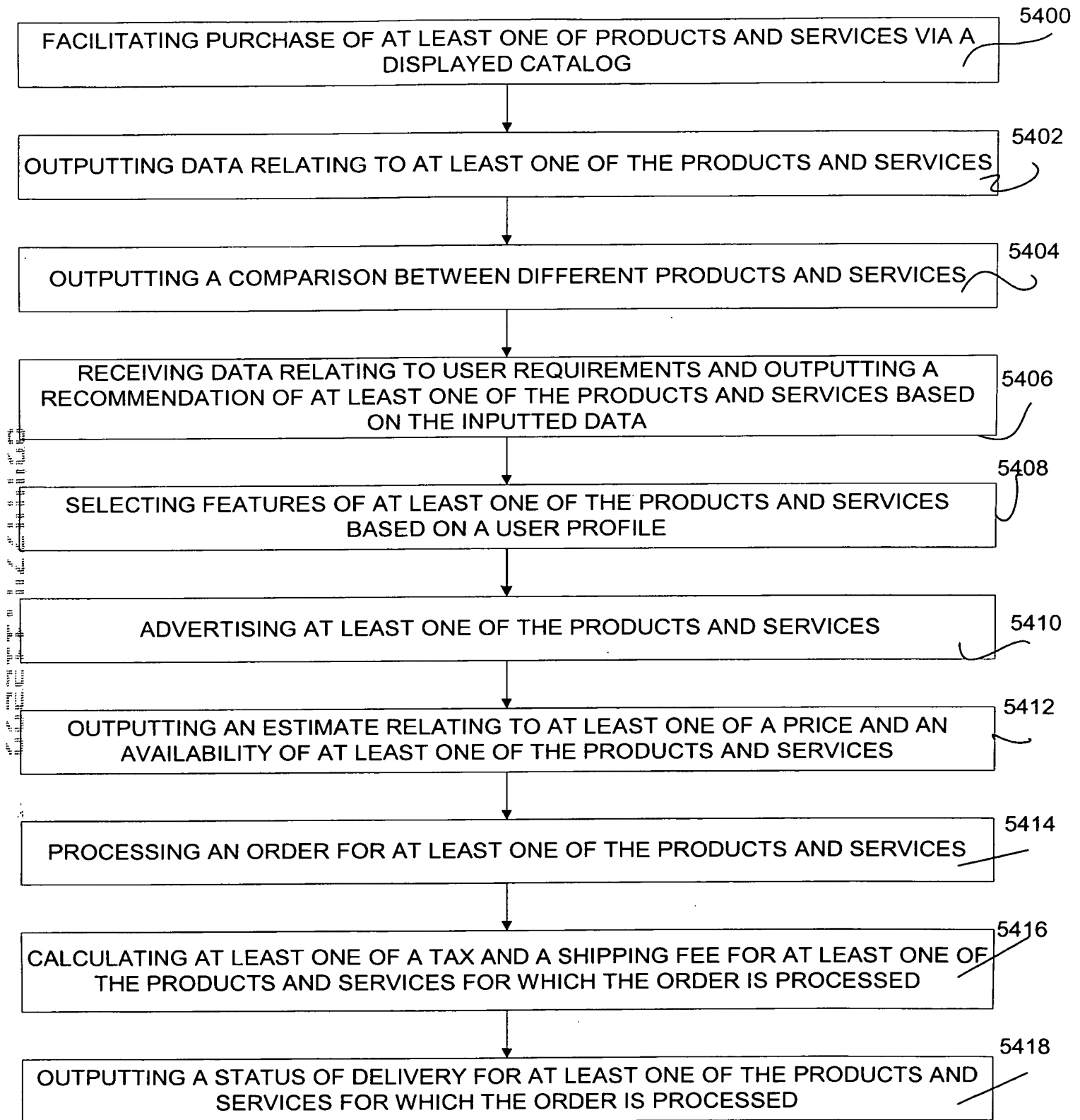


Figure 54

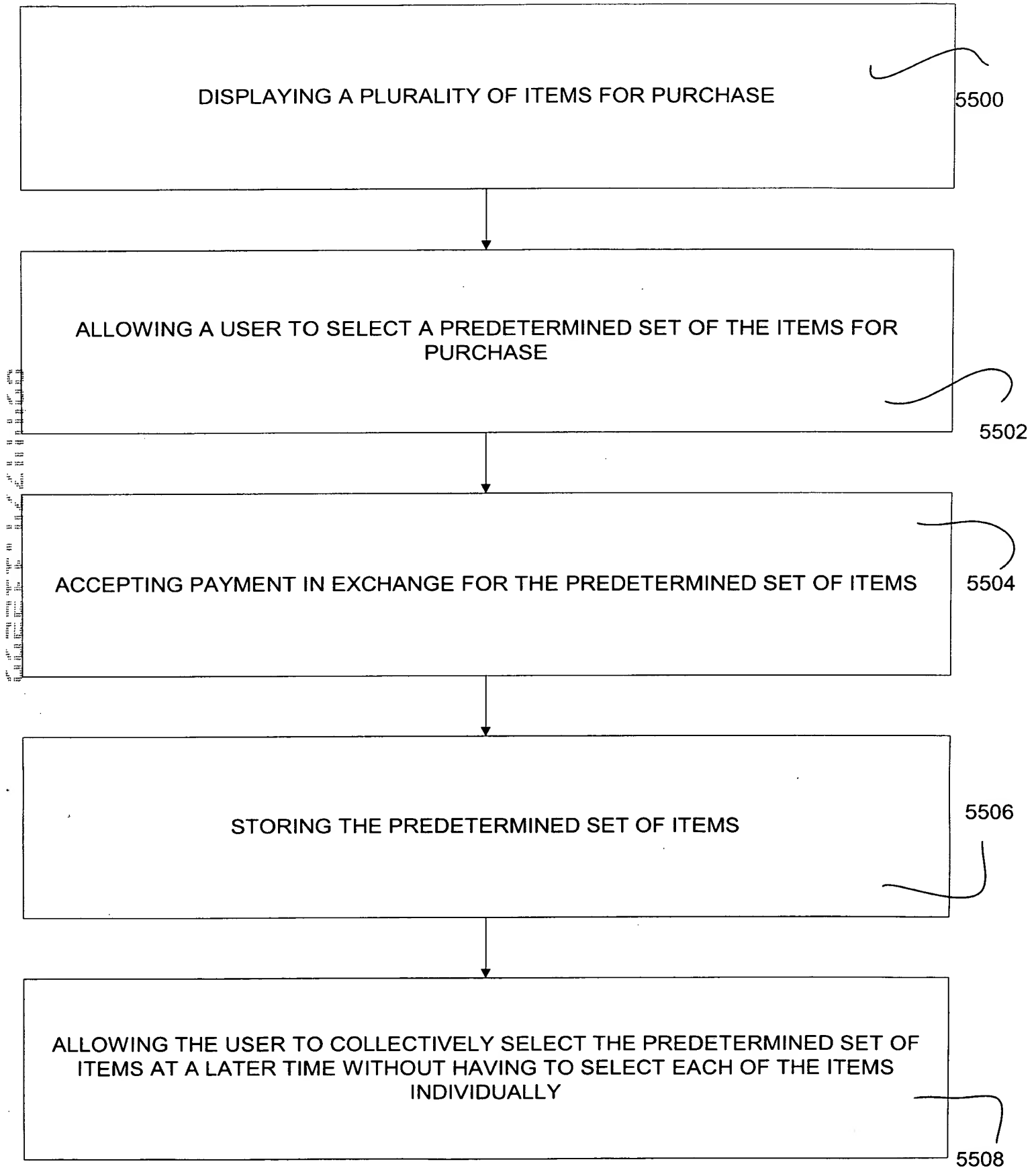
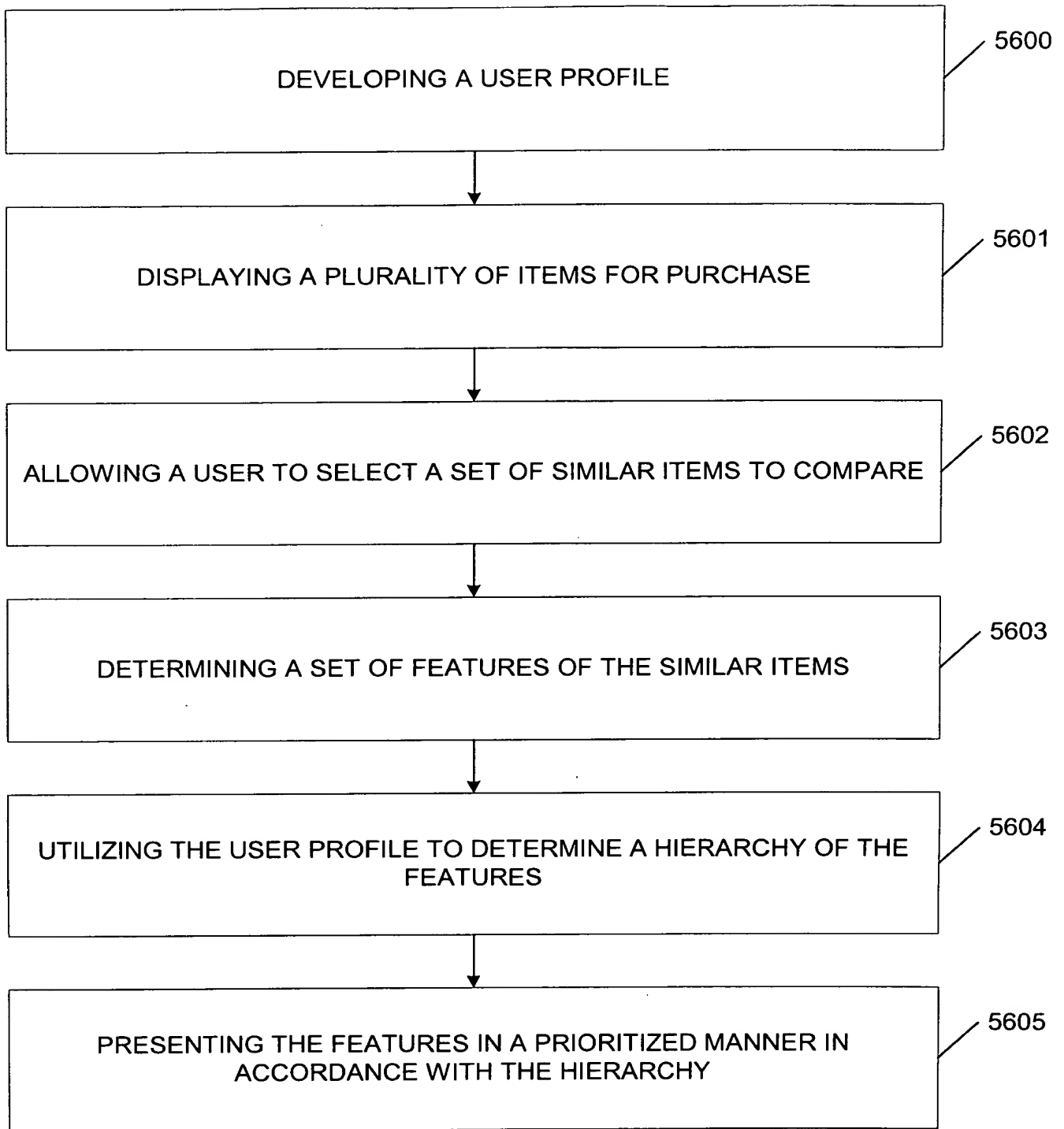


Figure 55



5404

Figure 56

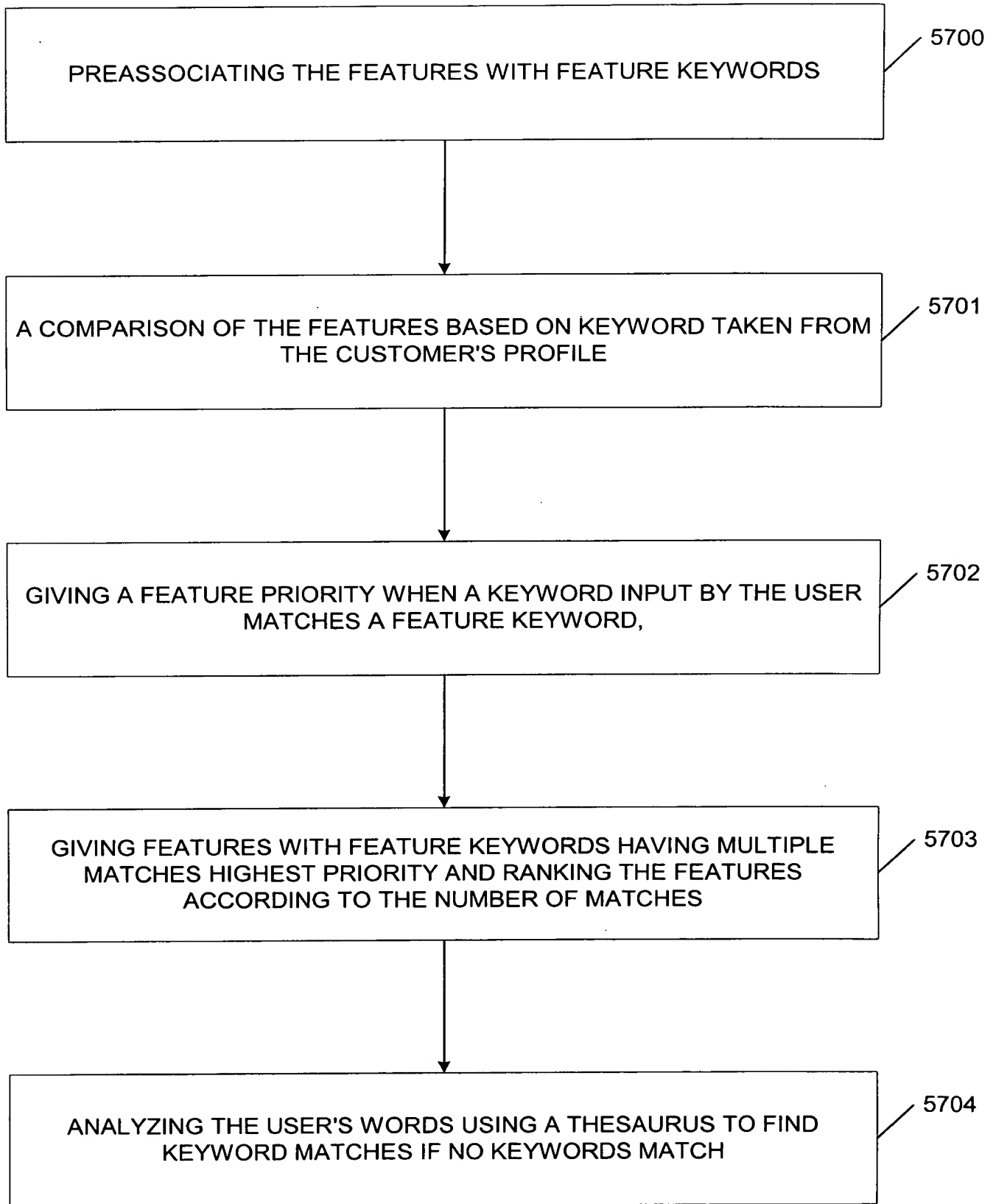
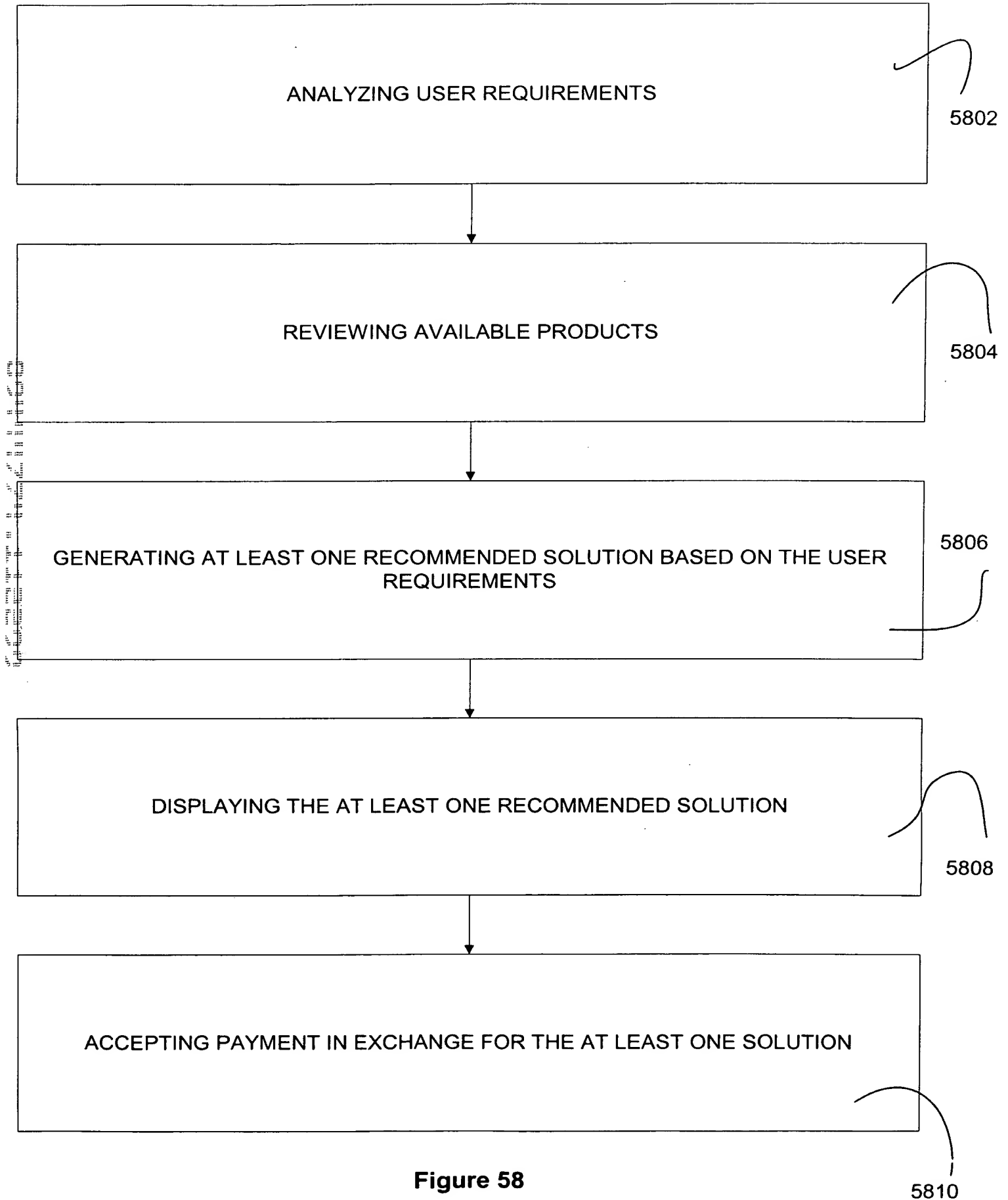


Figure 57



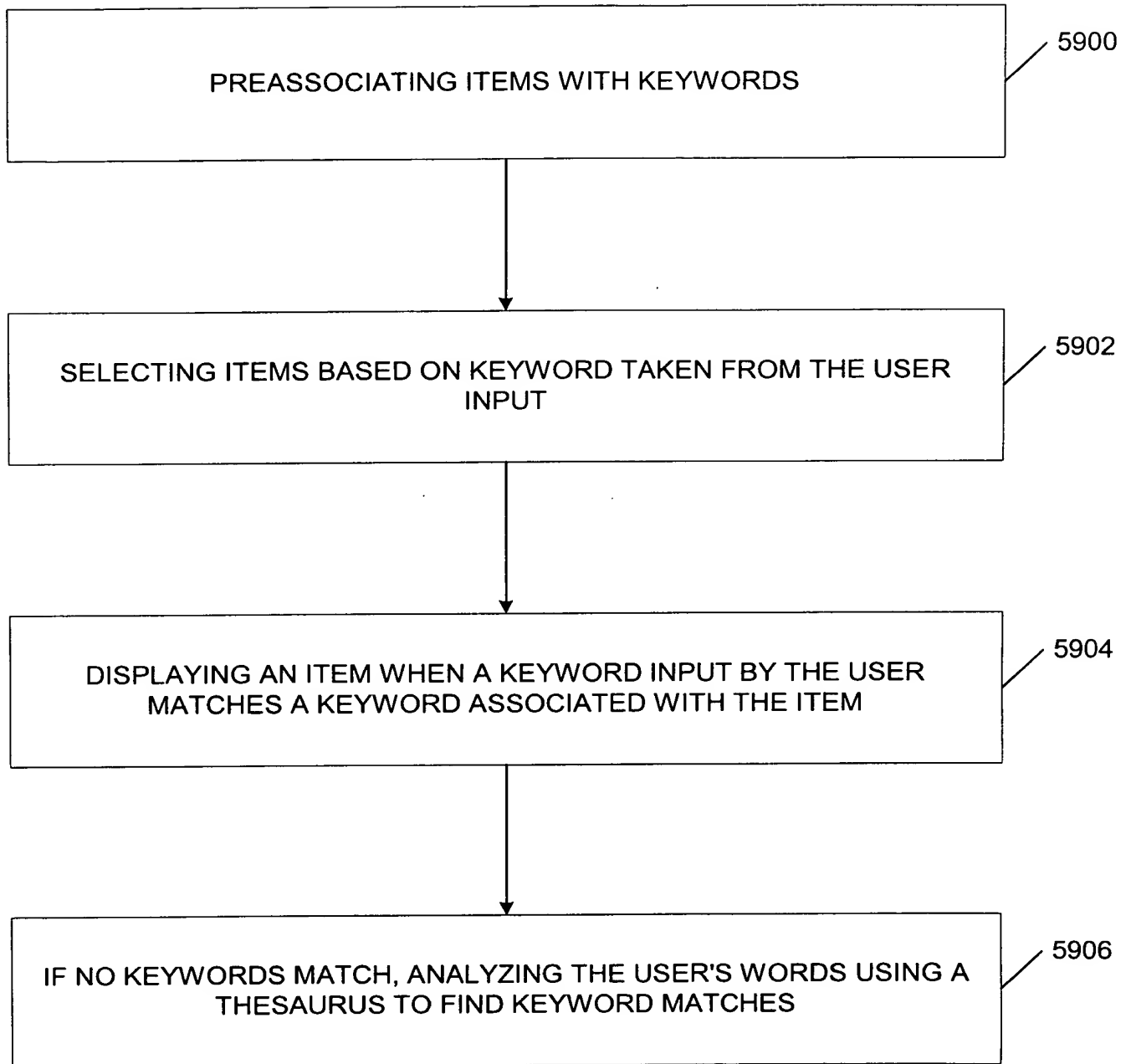


Figure 59

5806

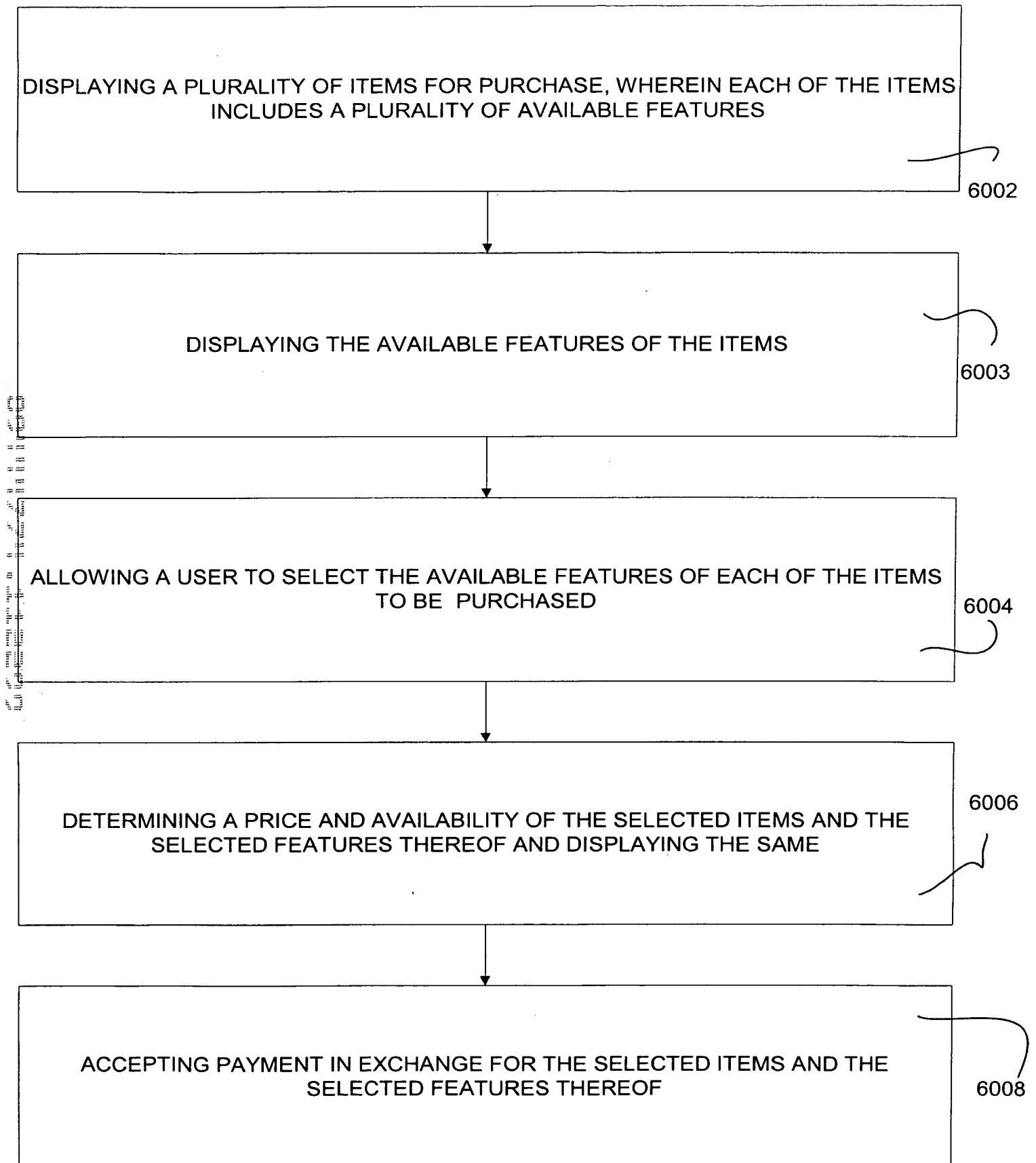


Figure 60

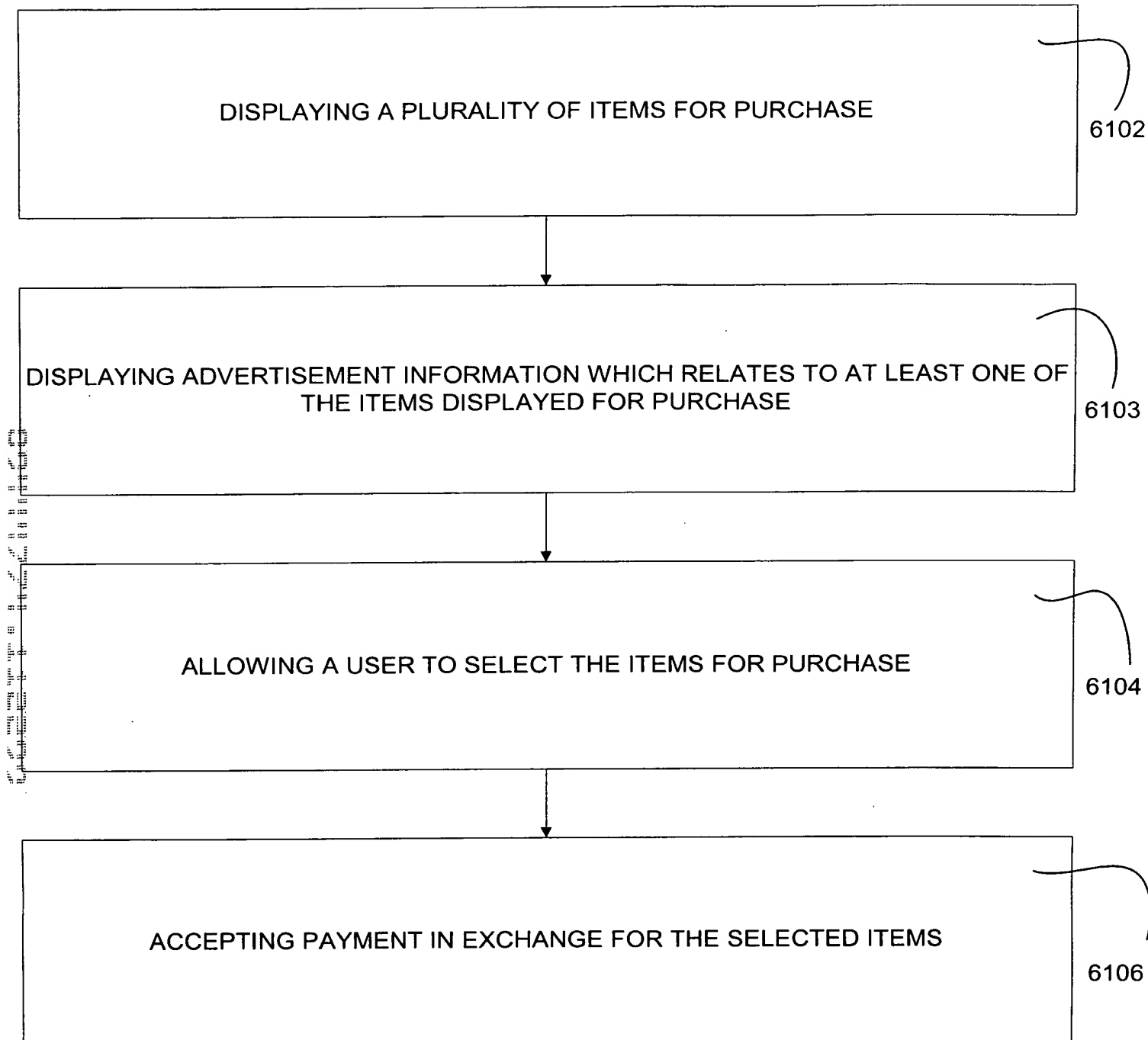


Figure 61

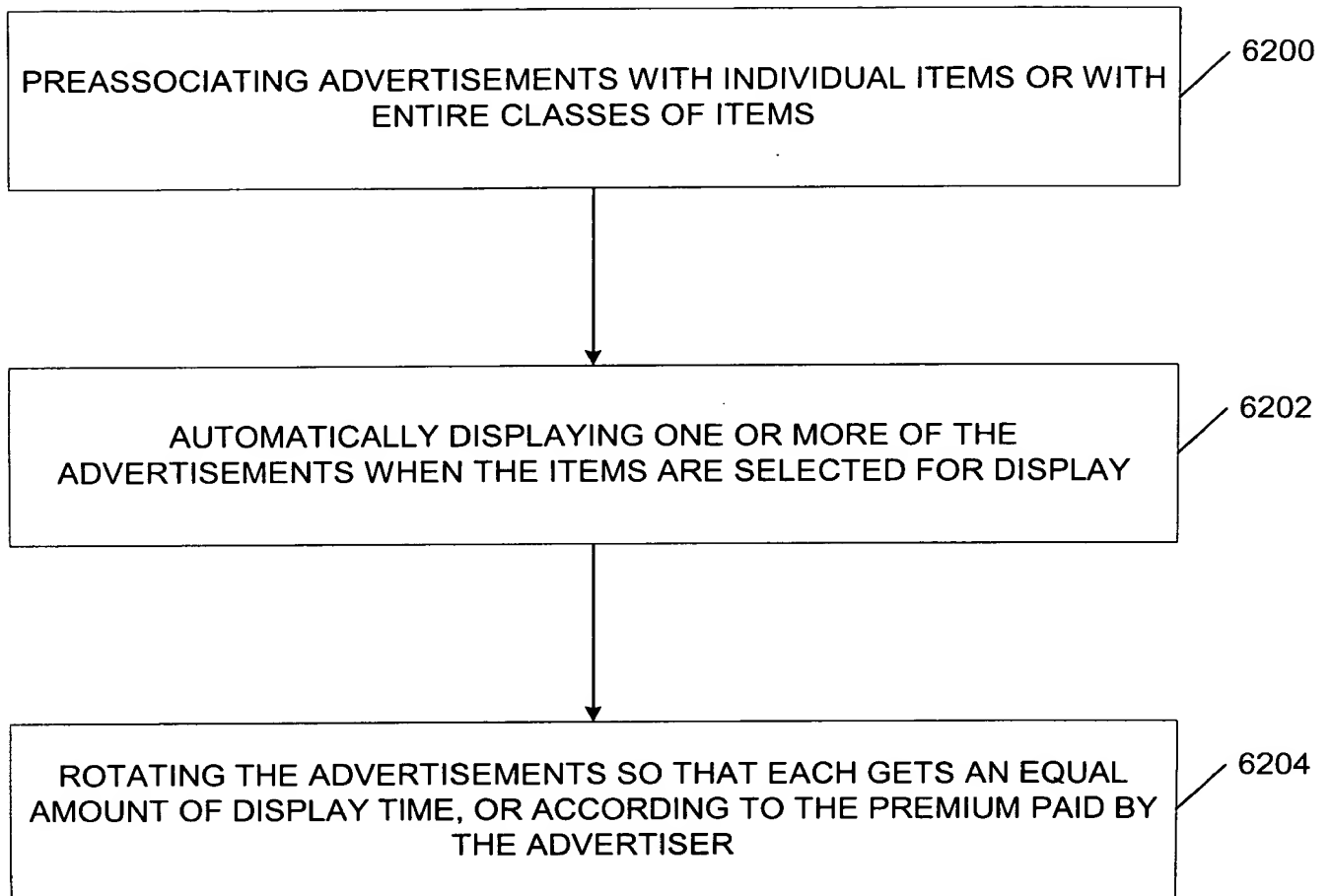
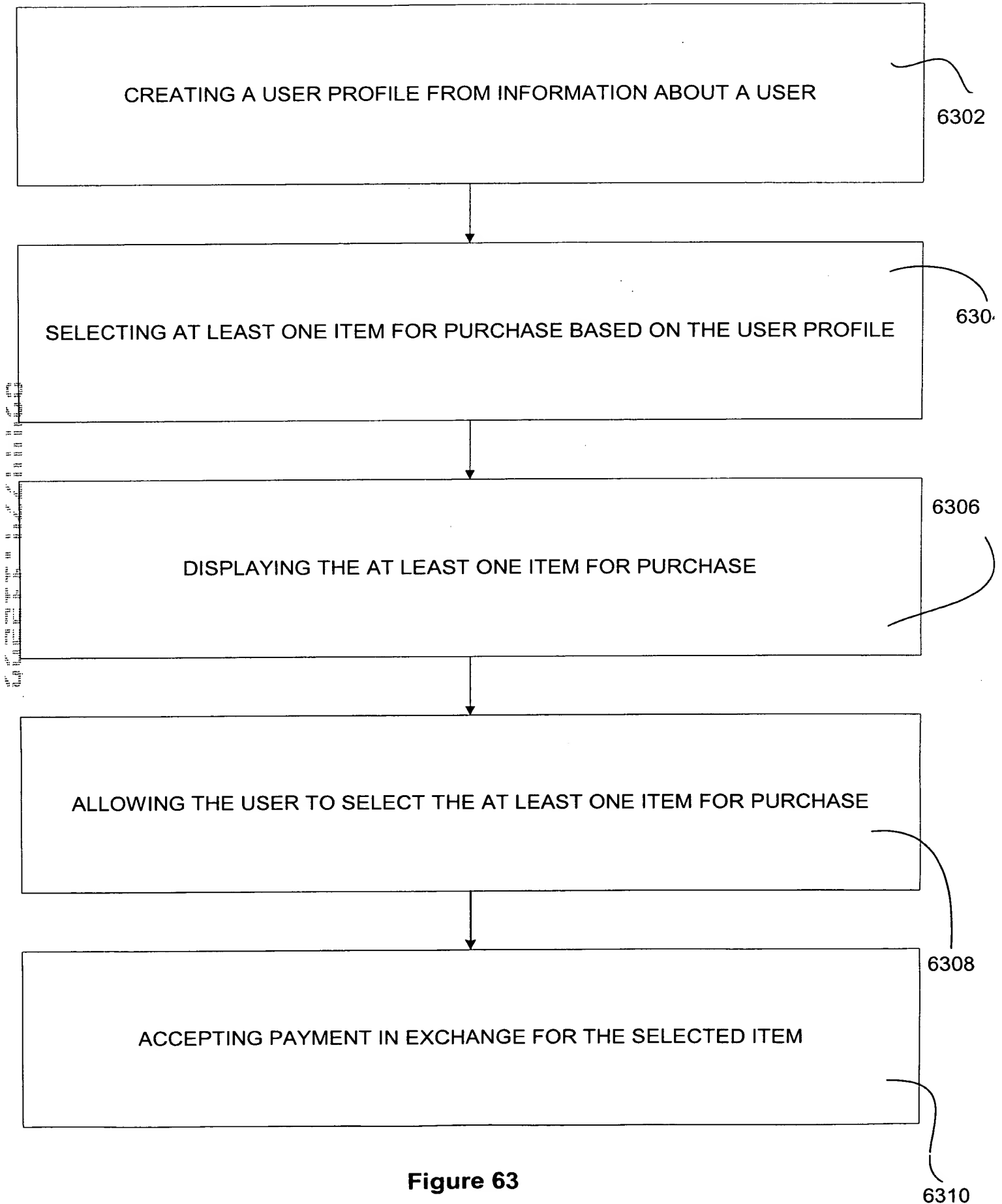
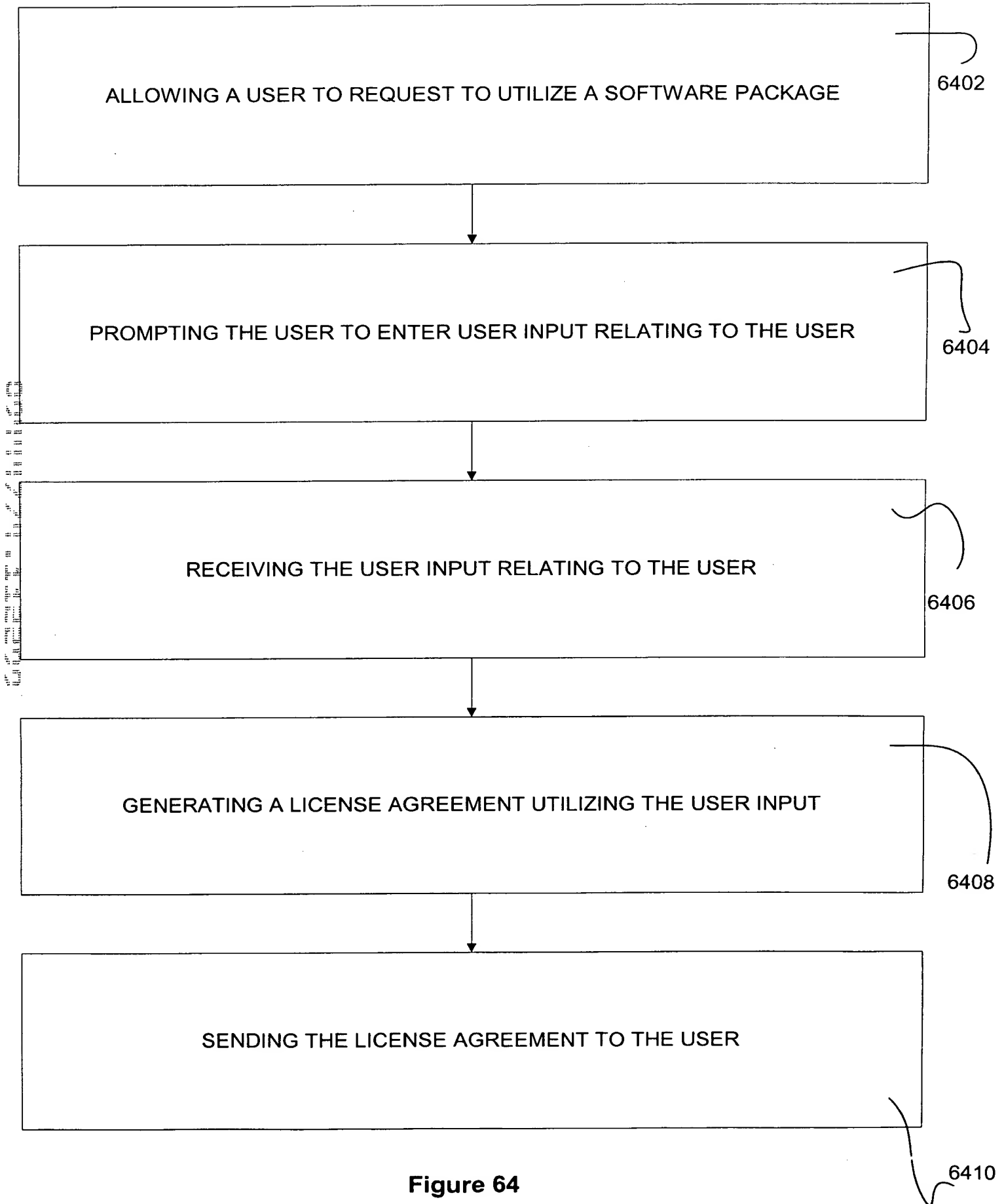


Figure 62

6103





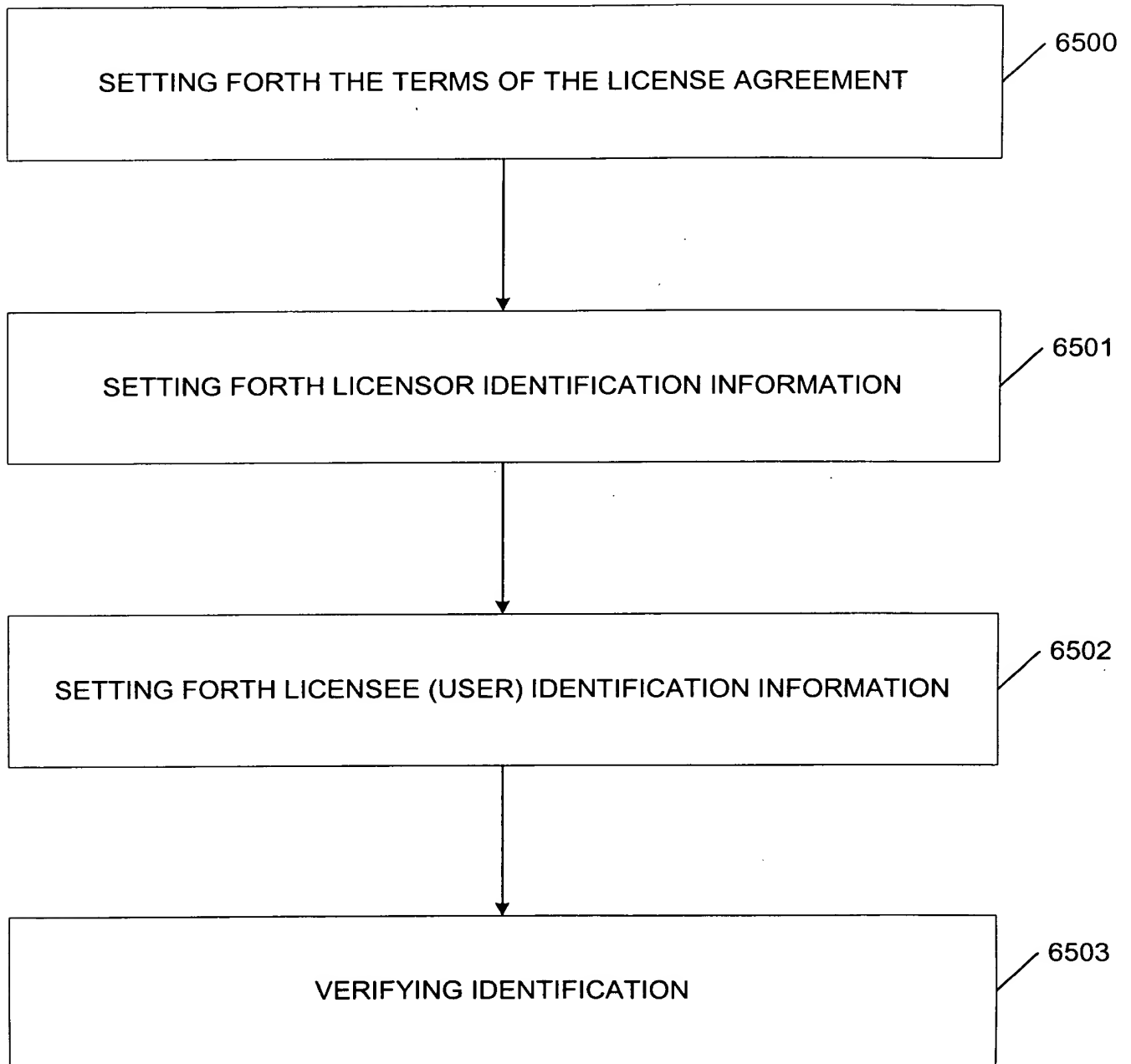


Figure 65

6408

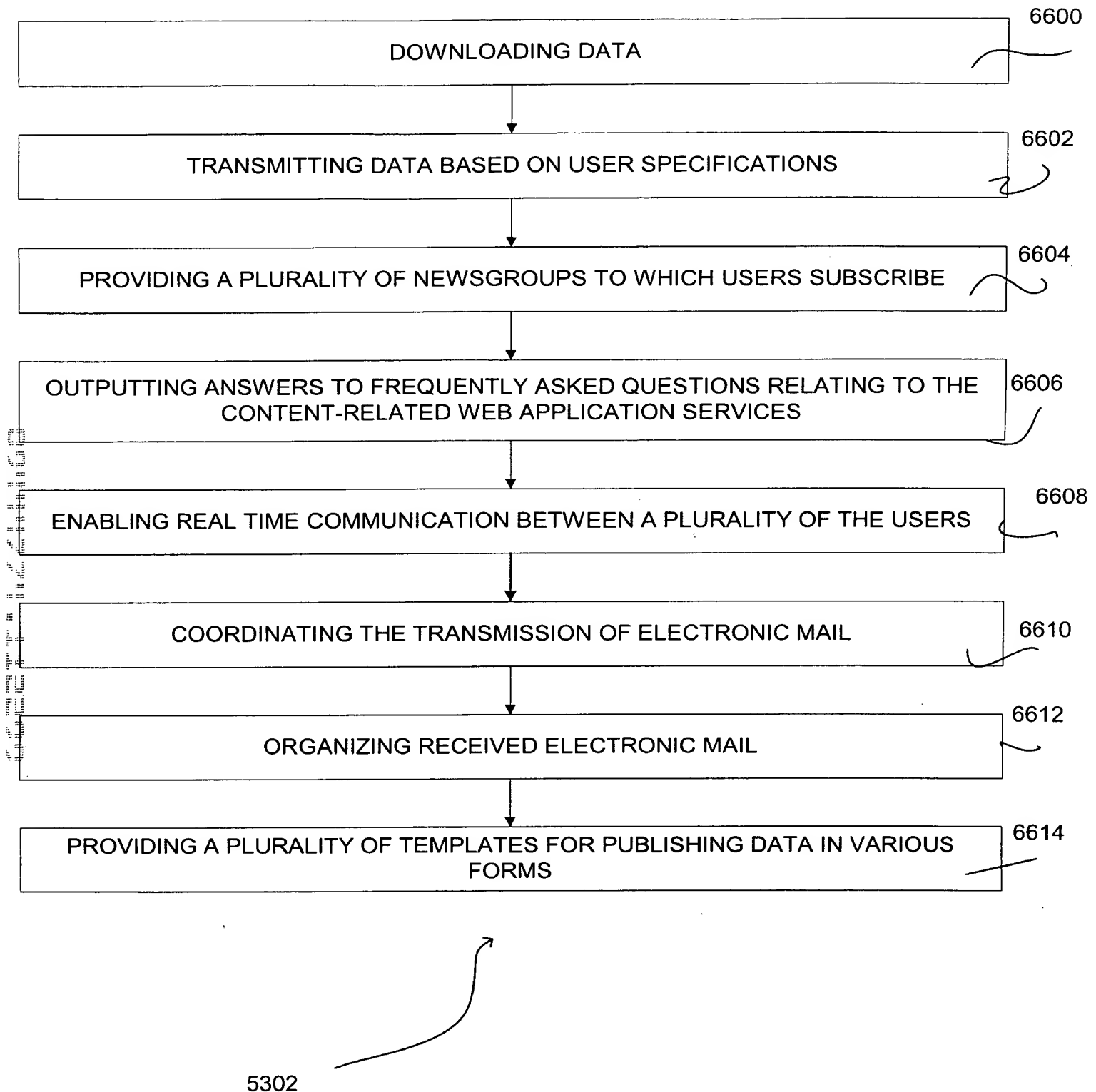


Figure 66

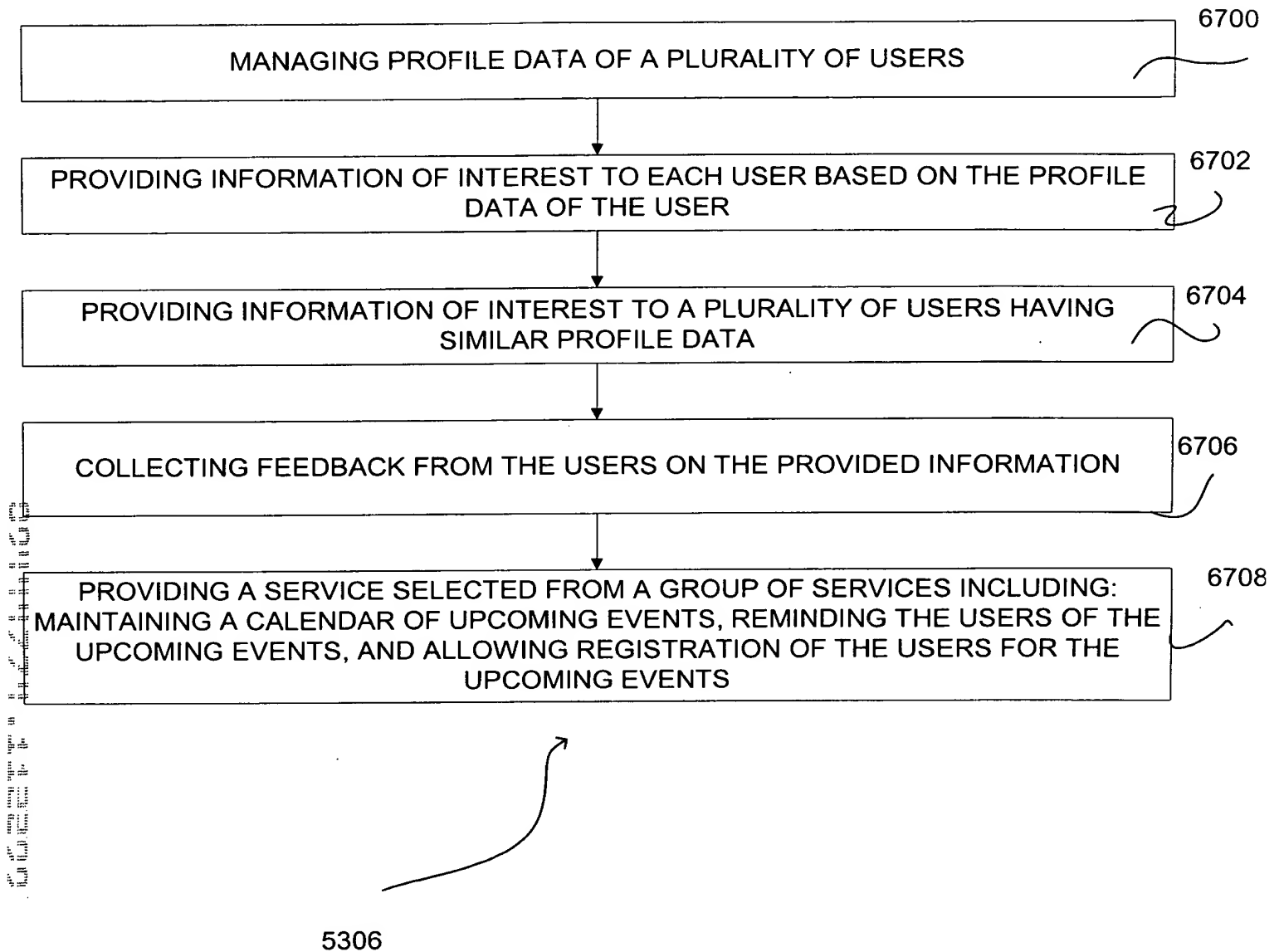
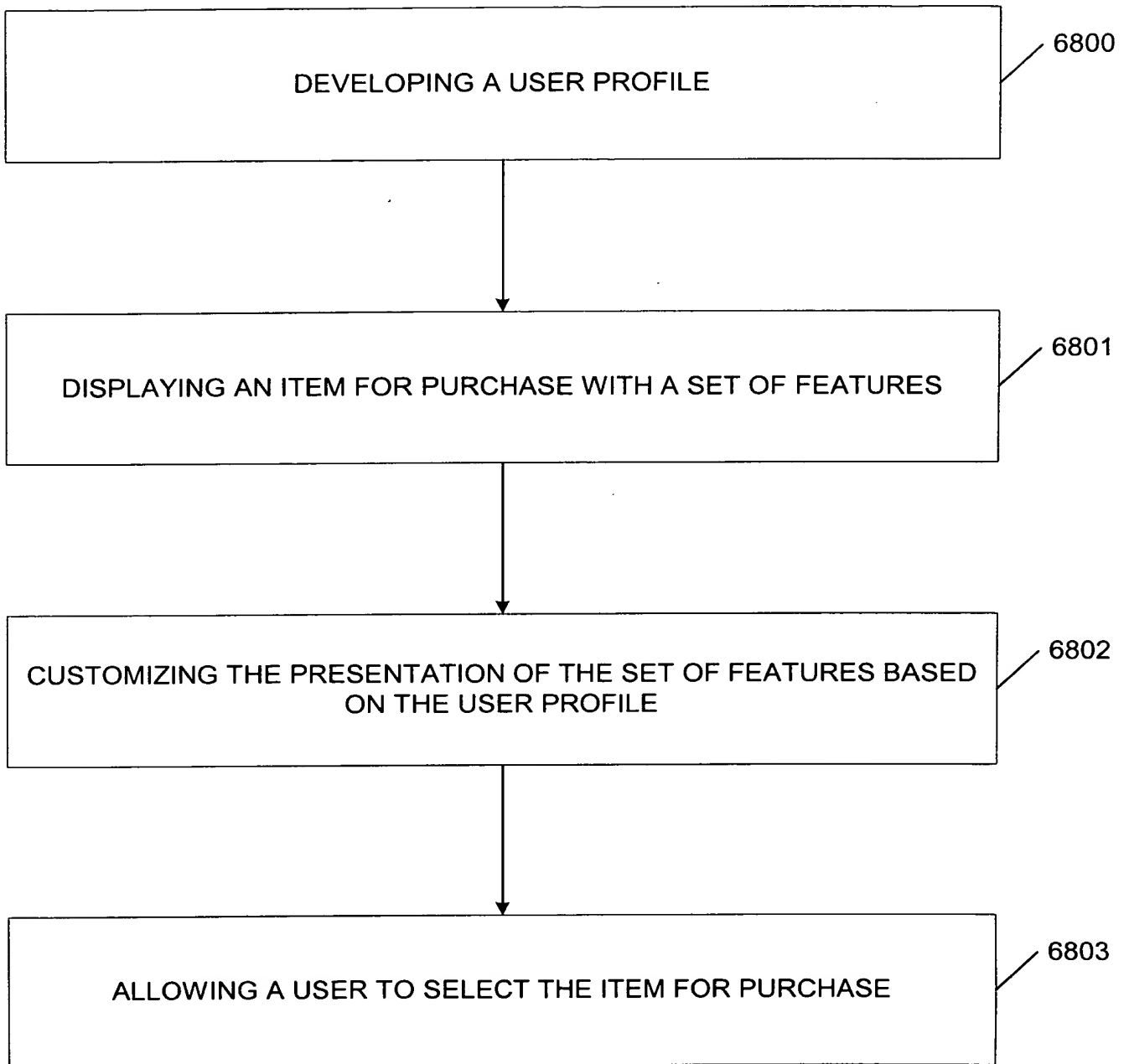


Figure 67



6700

Figure 68

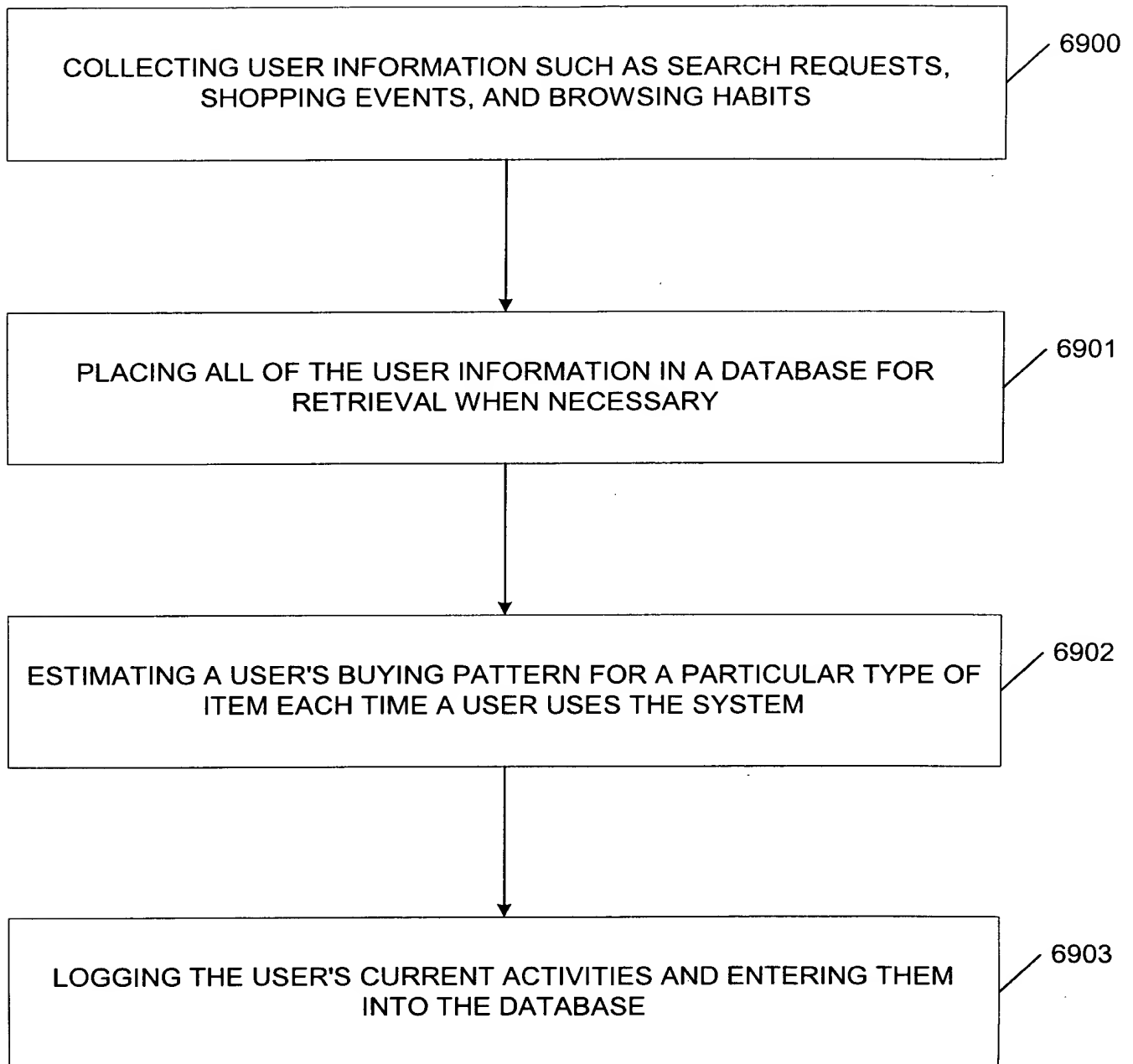


Figure 69

6810

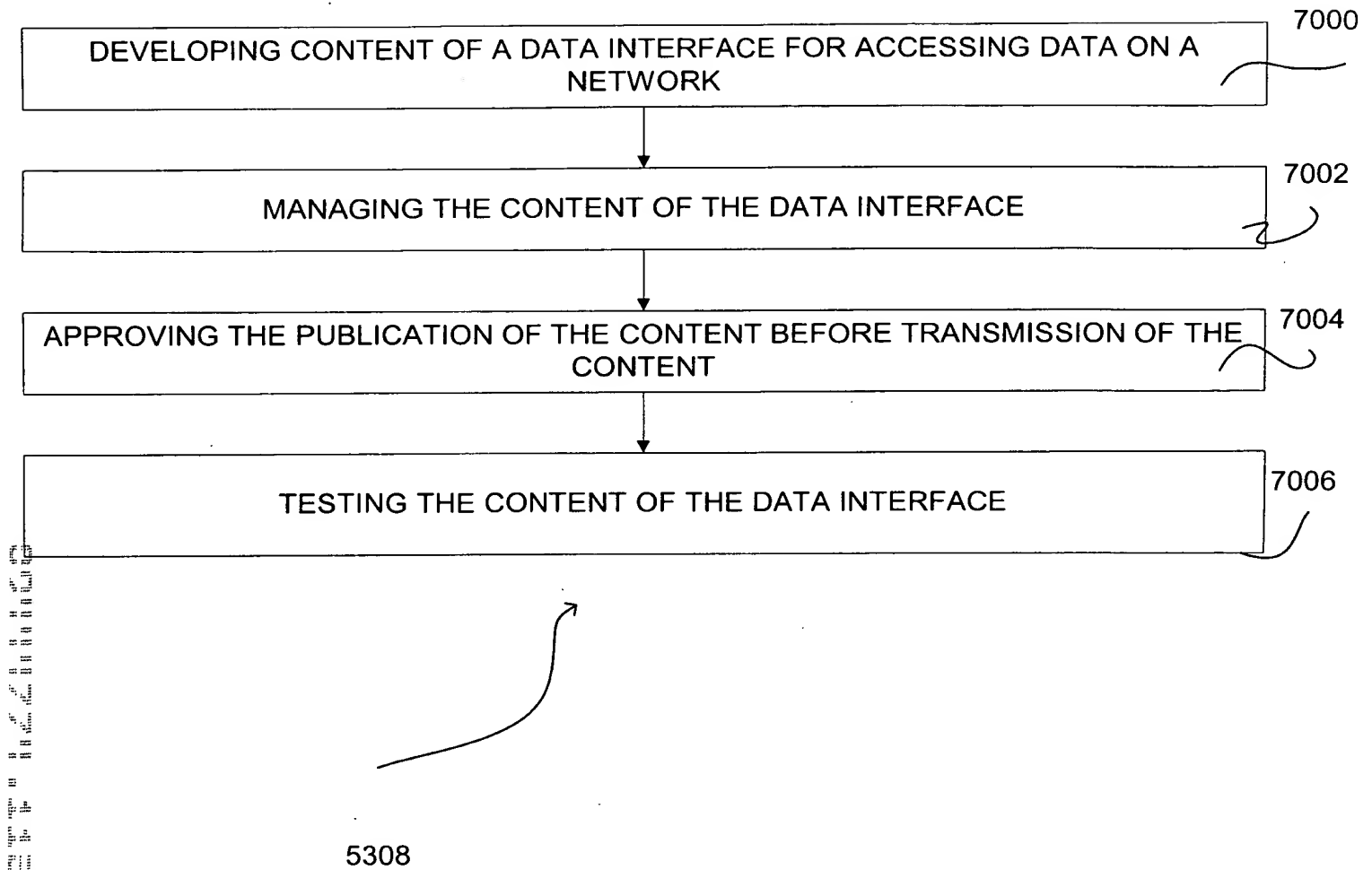


Figure 70

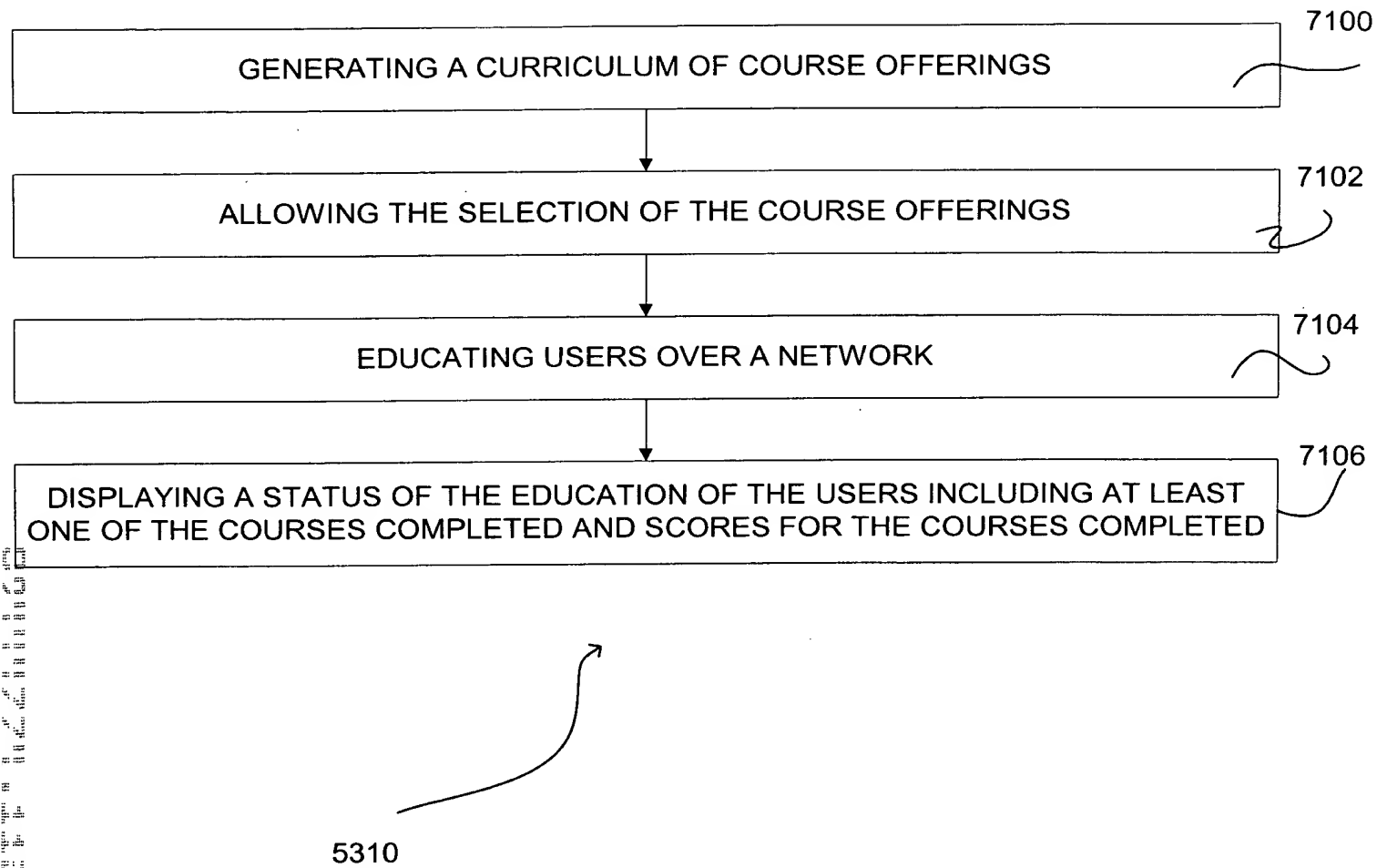


Figure 71

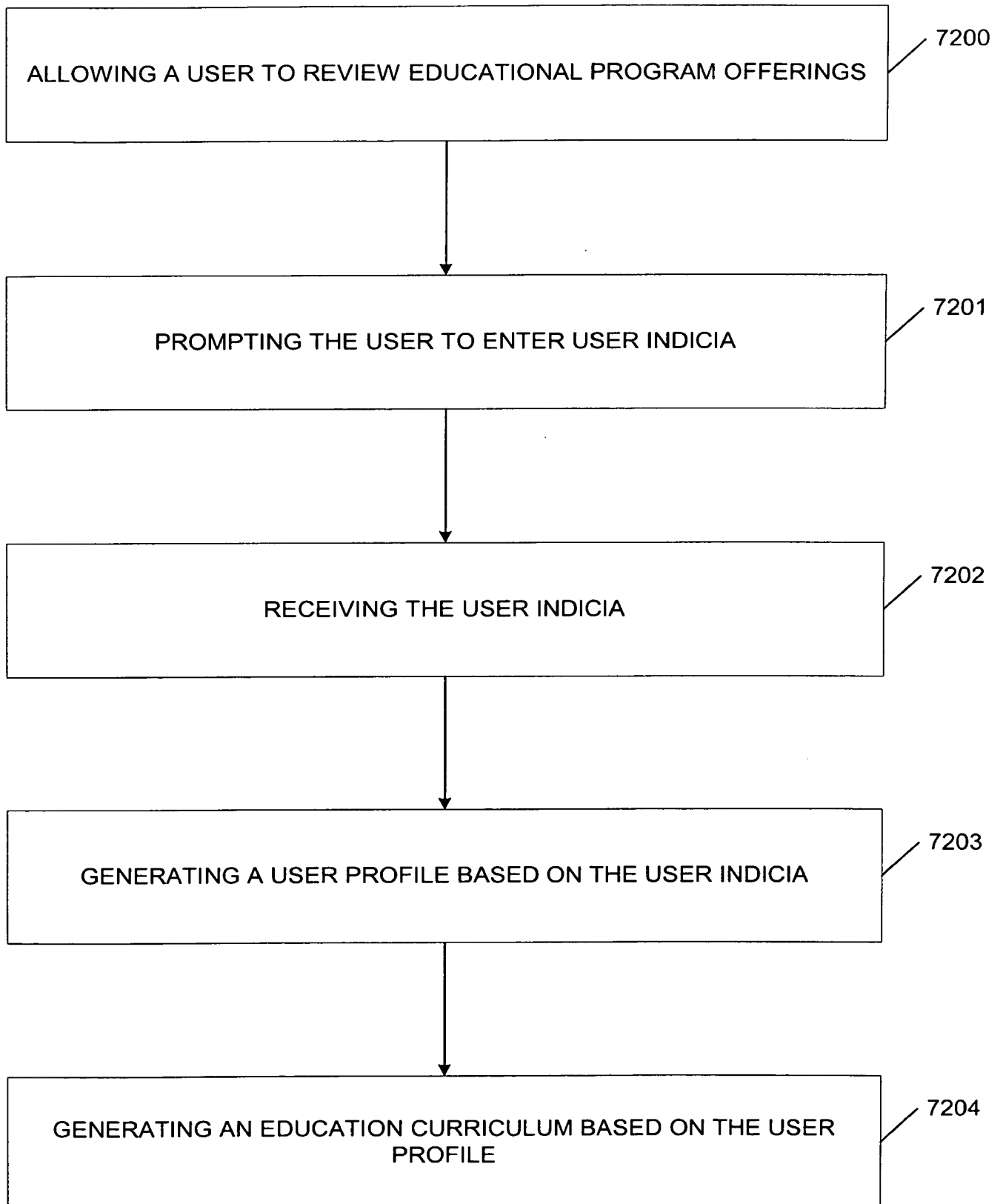


Figure 72

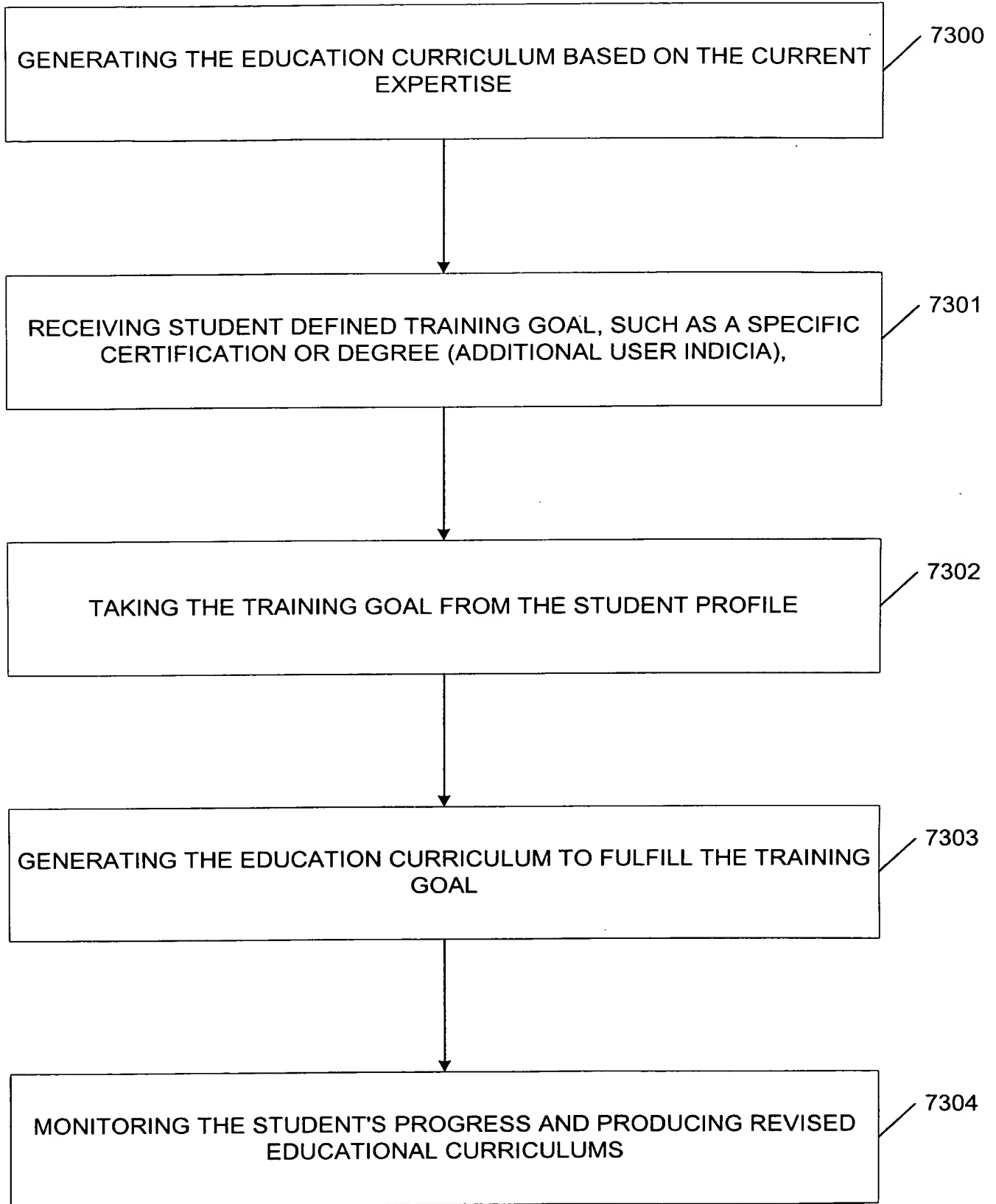


Figure 73

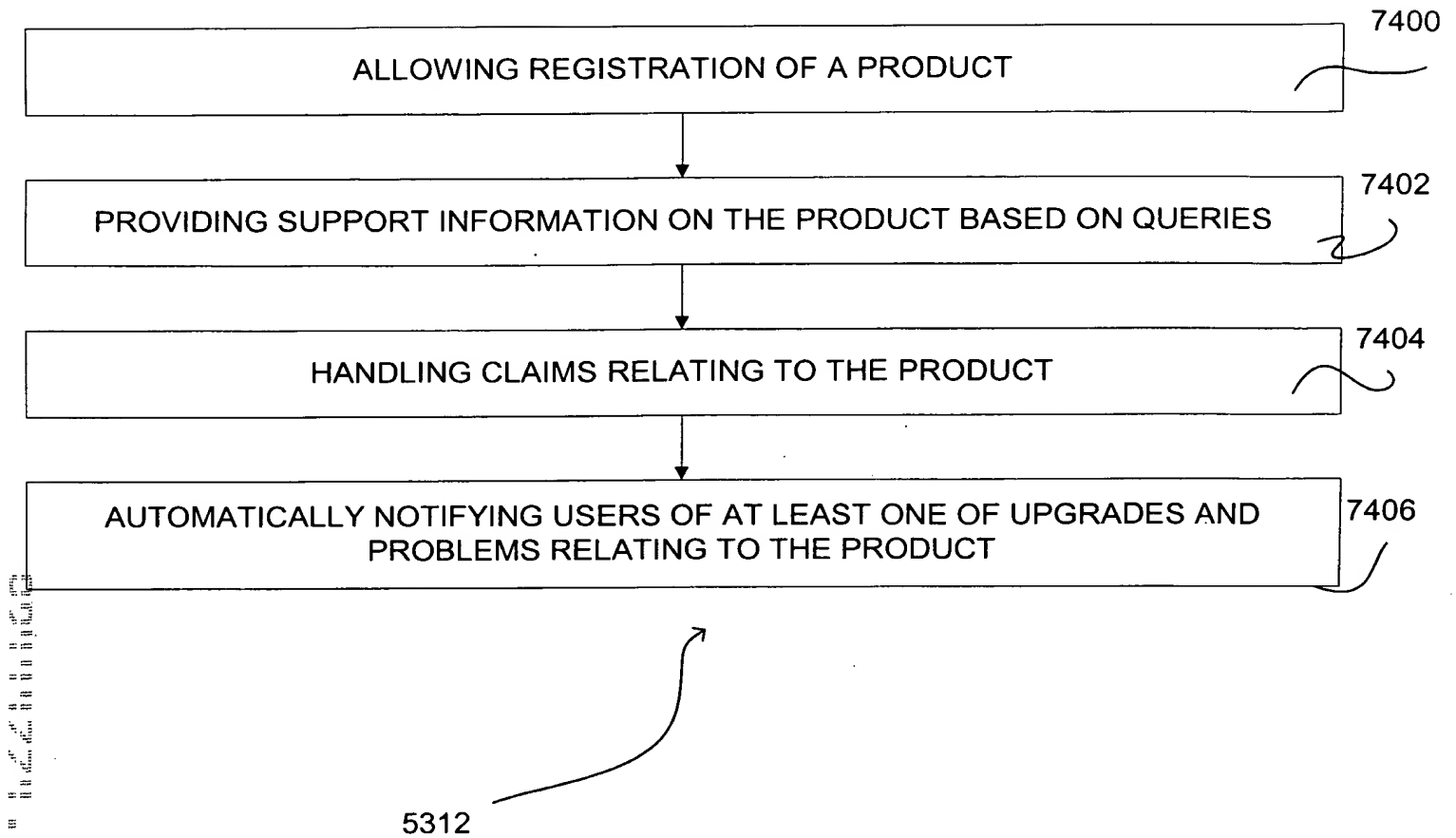
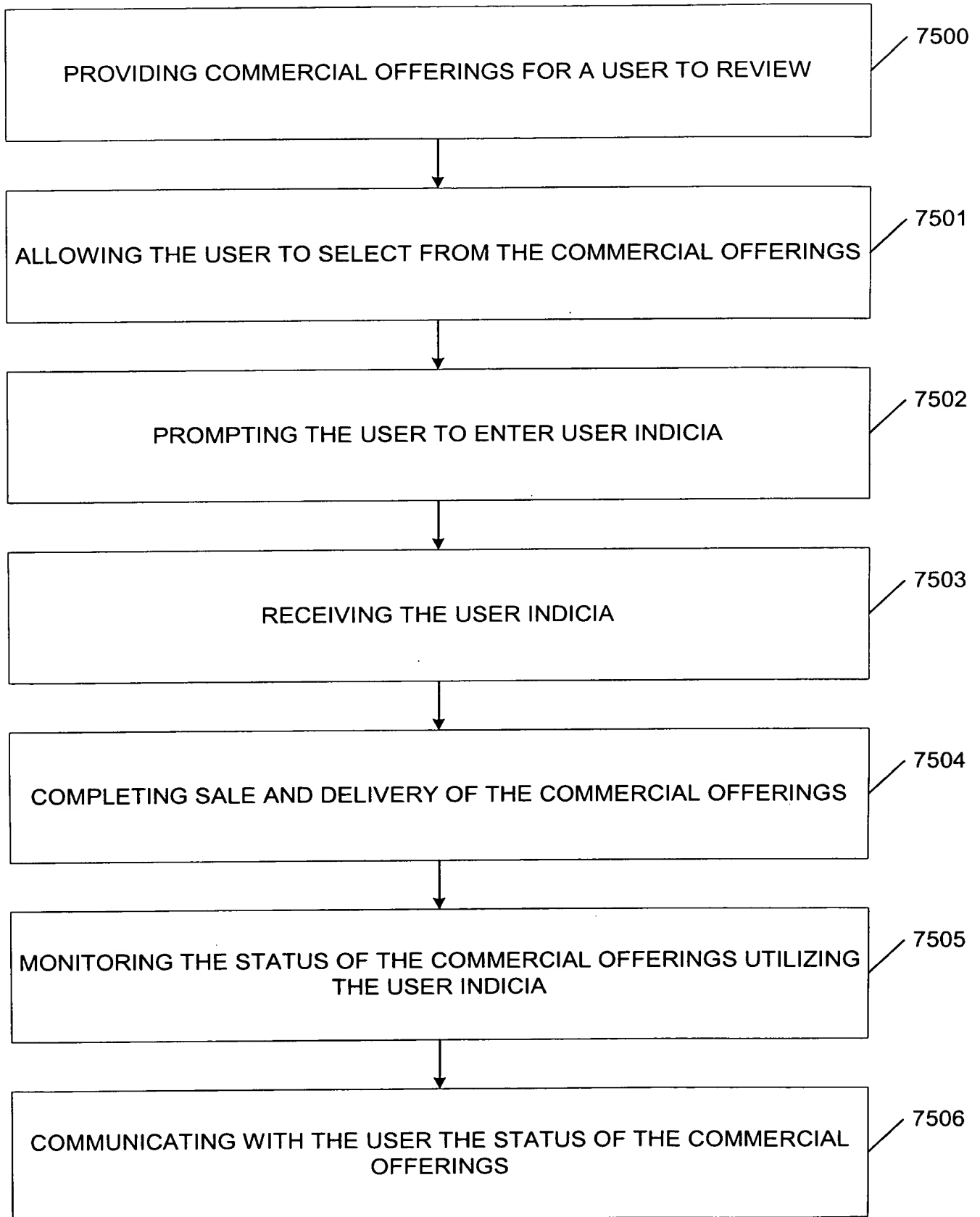


Figure 74



7400 ↗

Figure 75

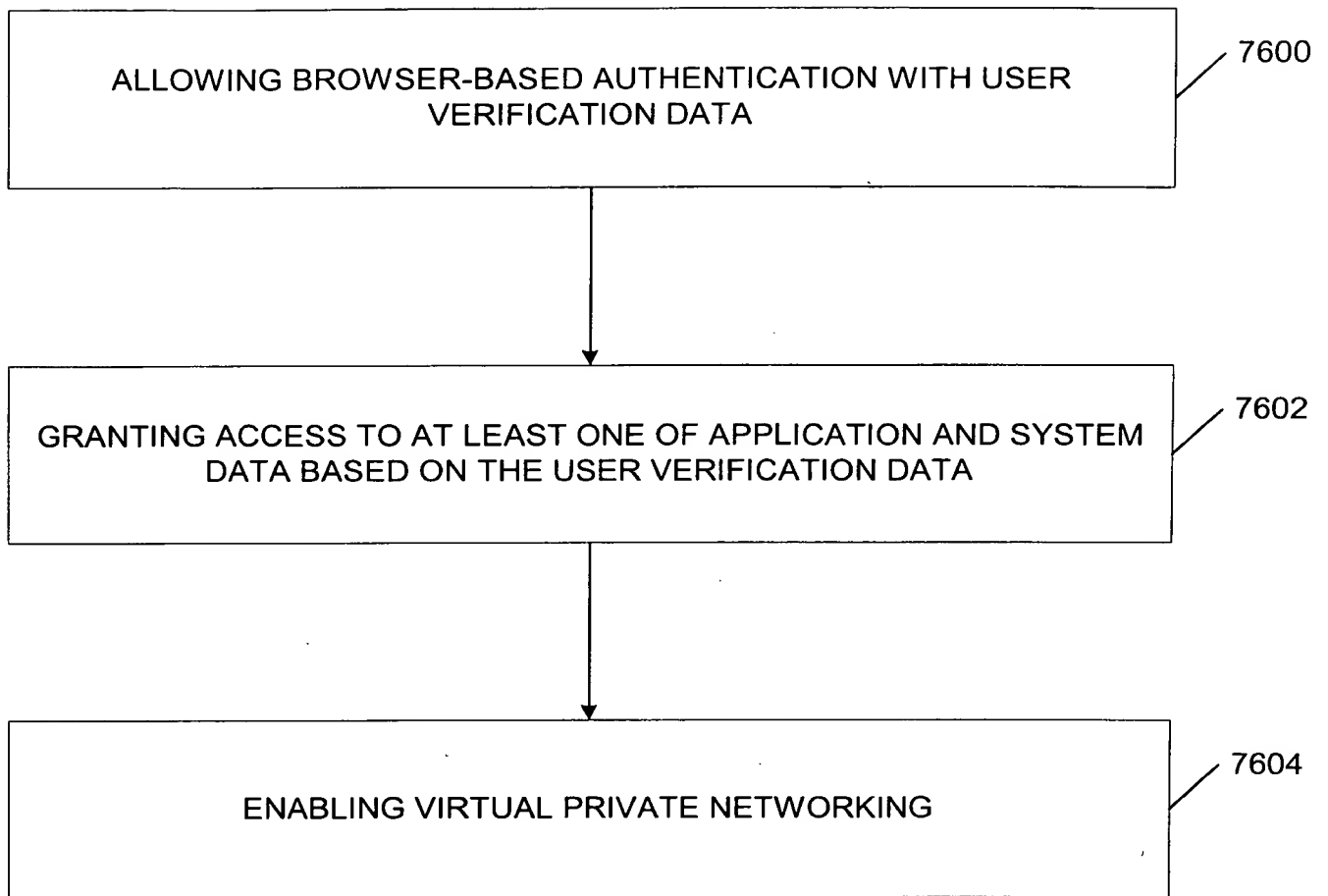


Figure 76

5314

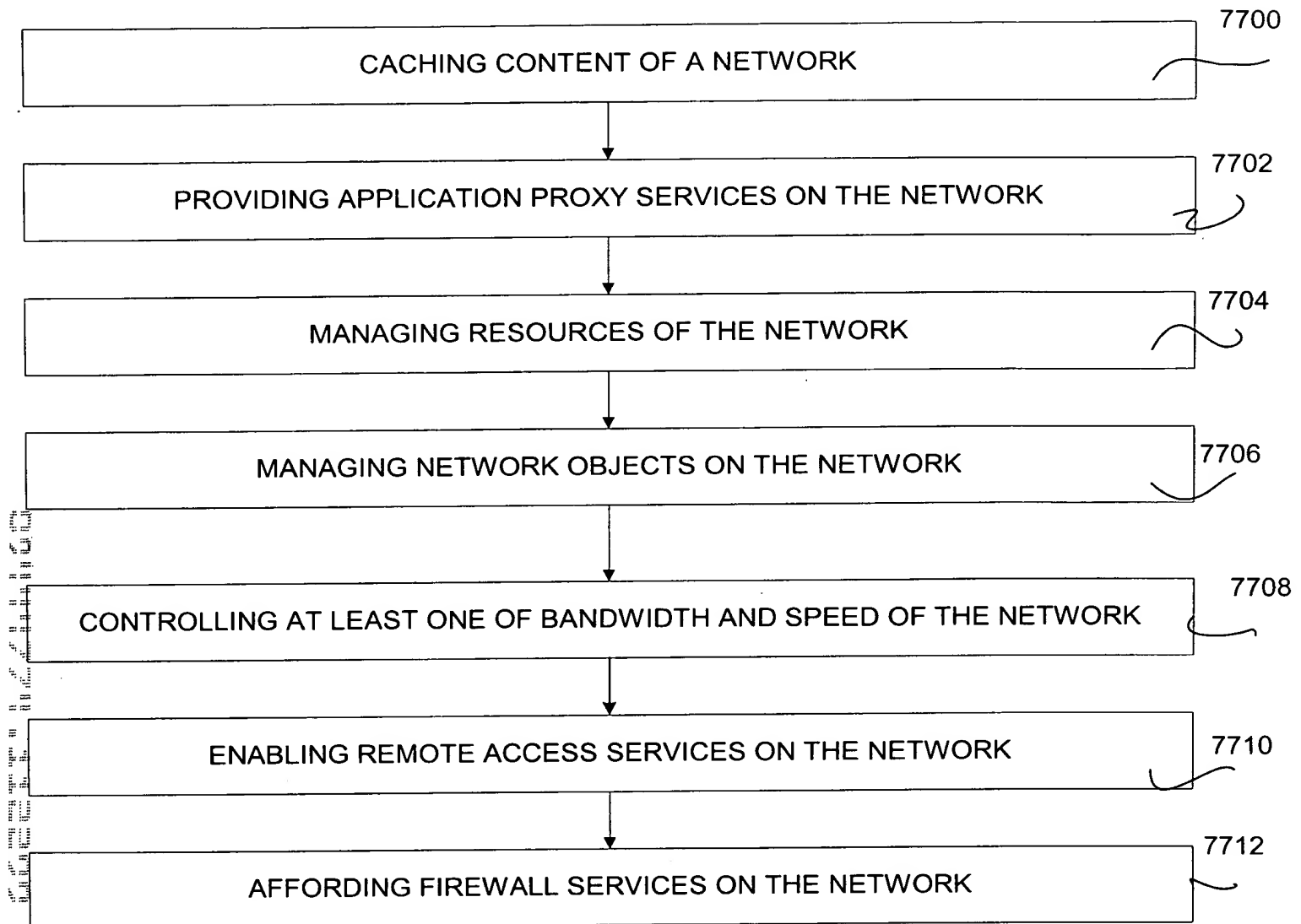


Figure 77

5316

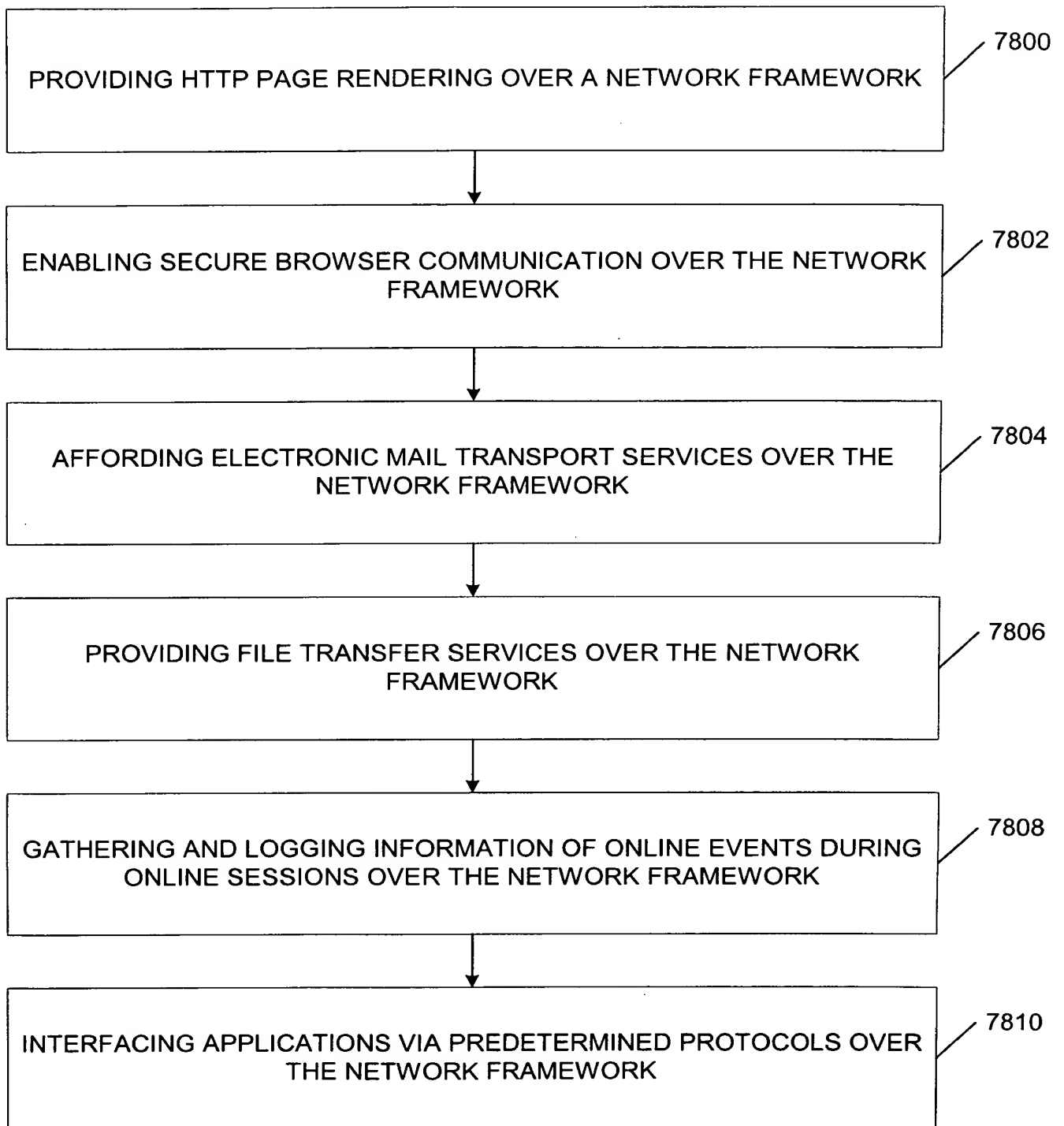


Figure 78

5318

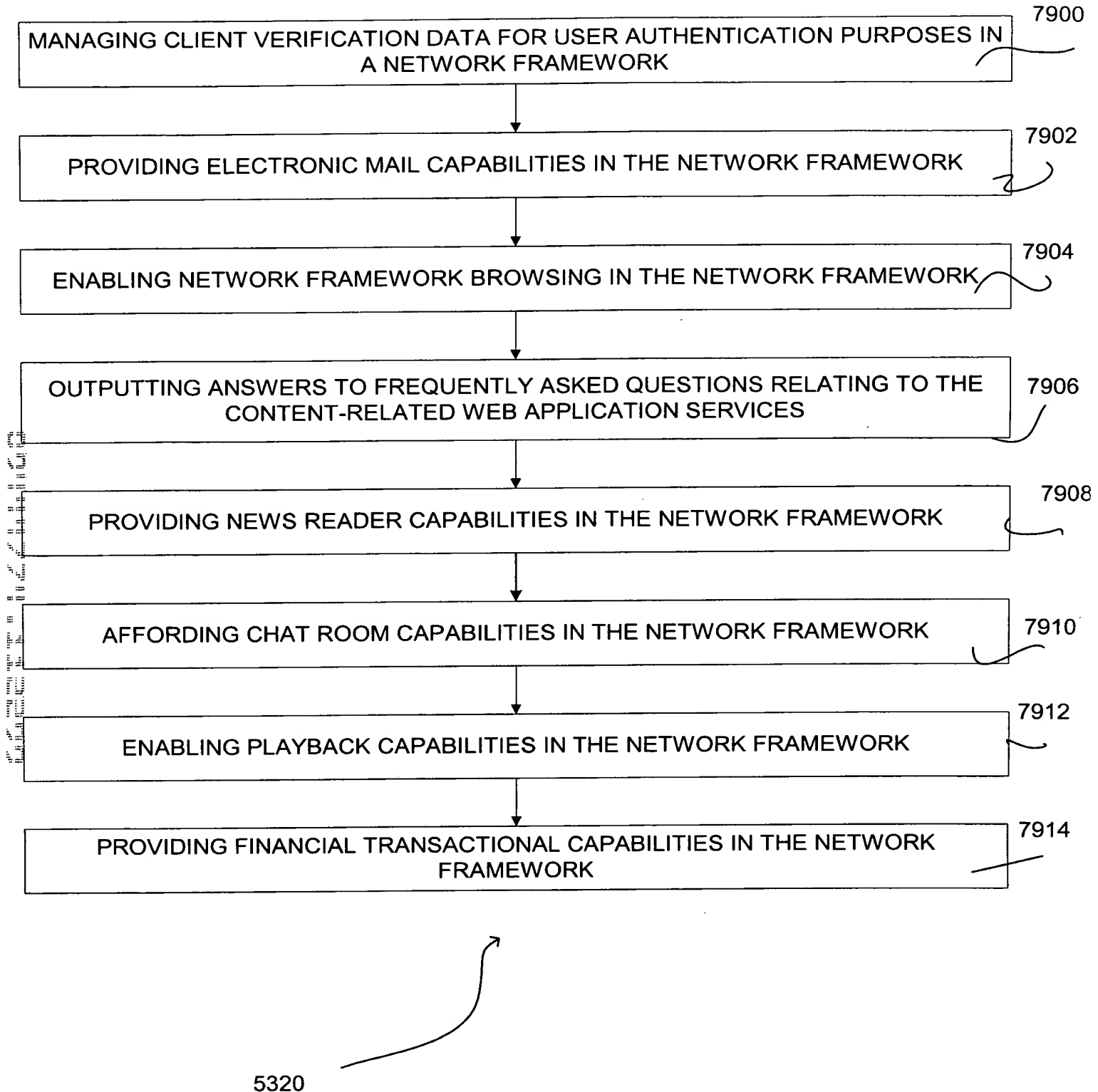


Figure 79

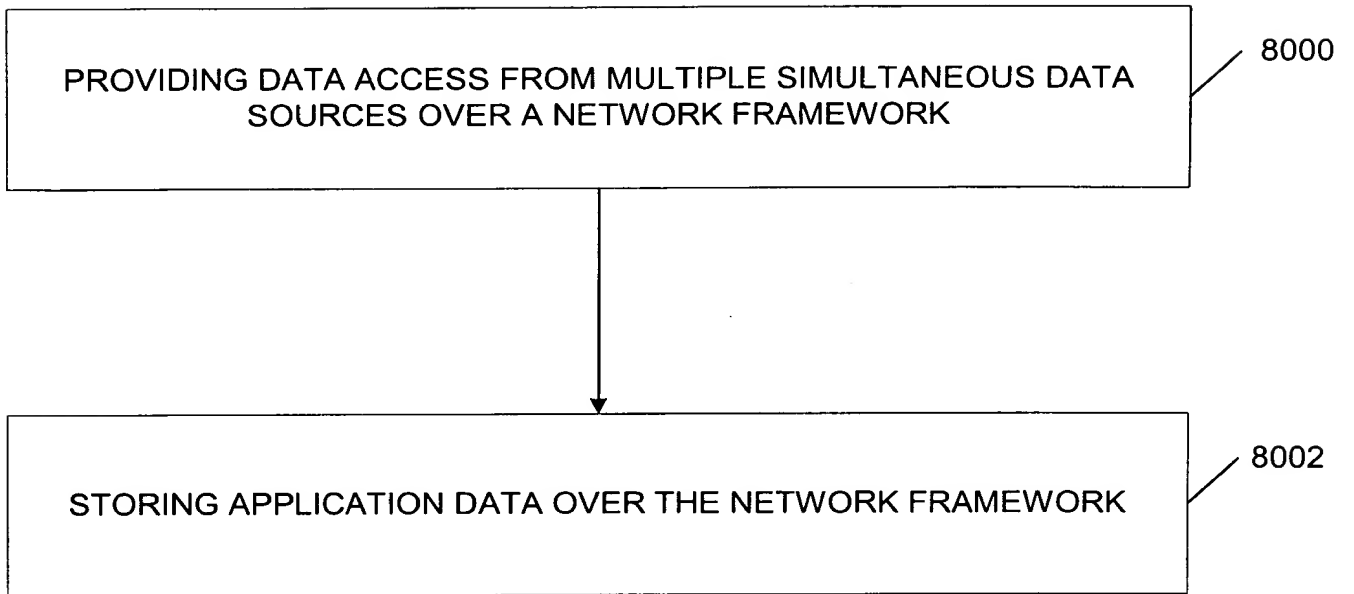
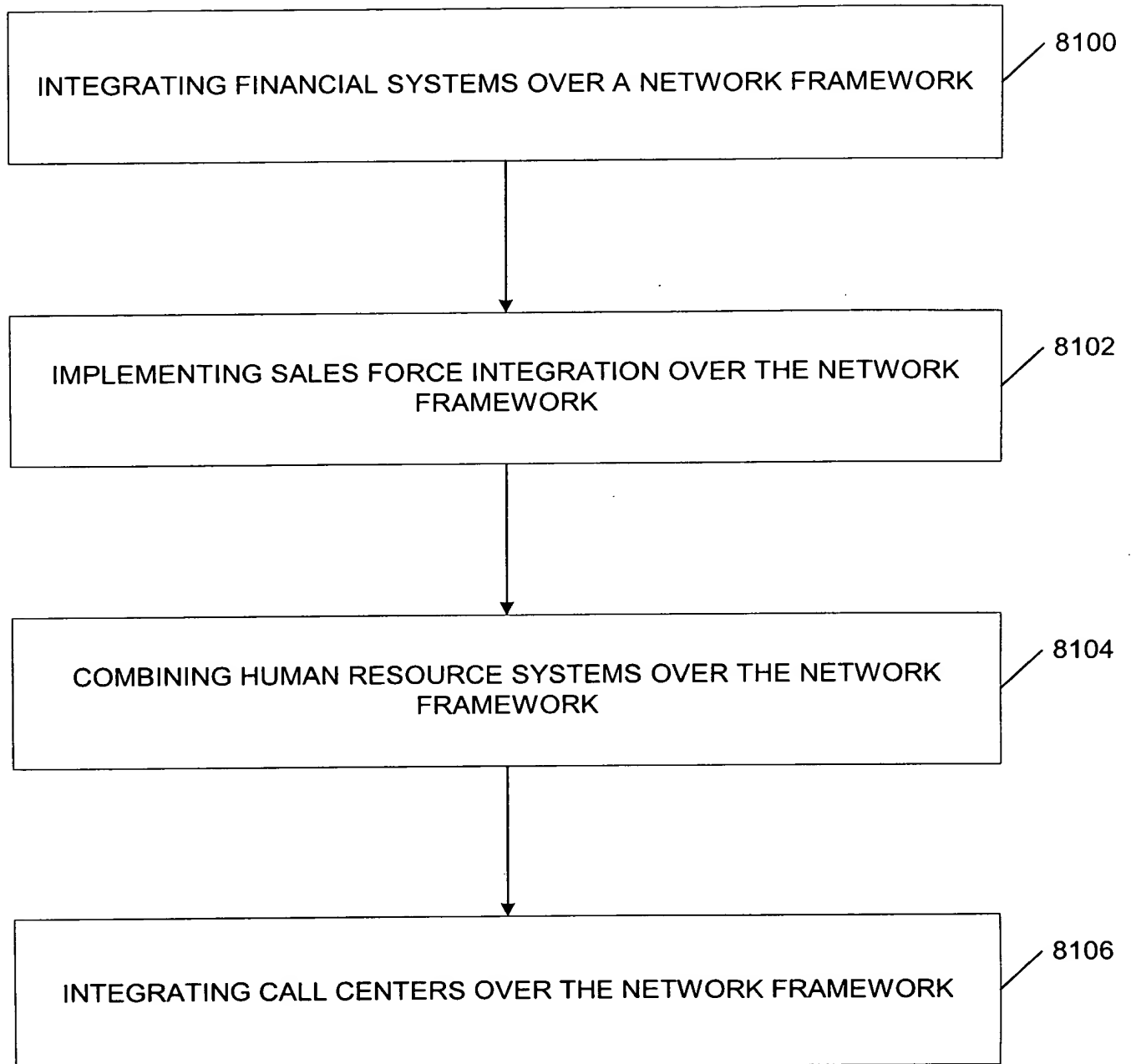


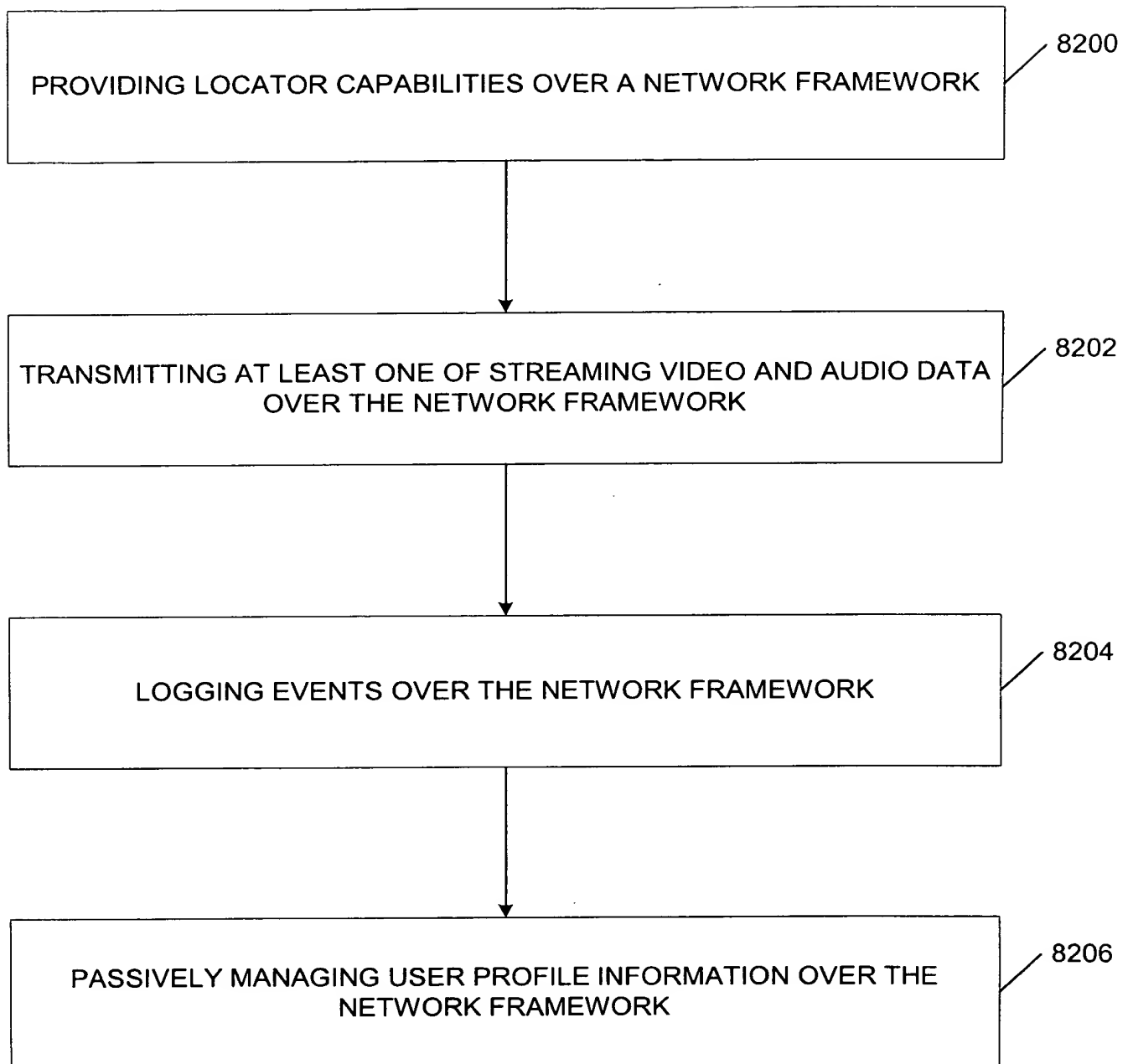
Figure 80

5324



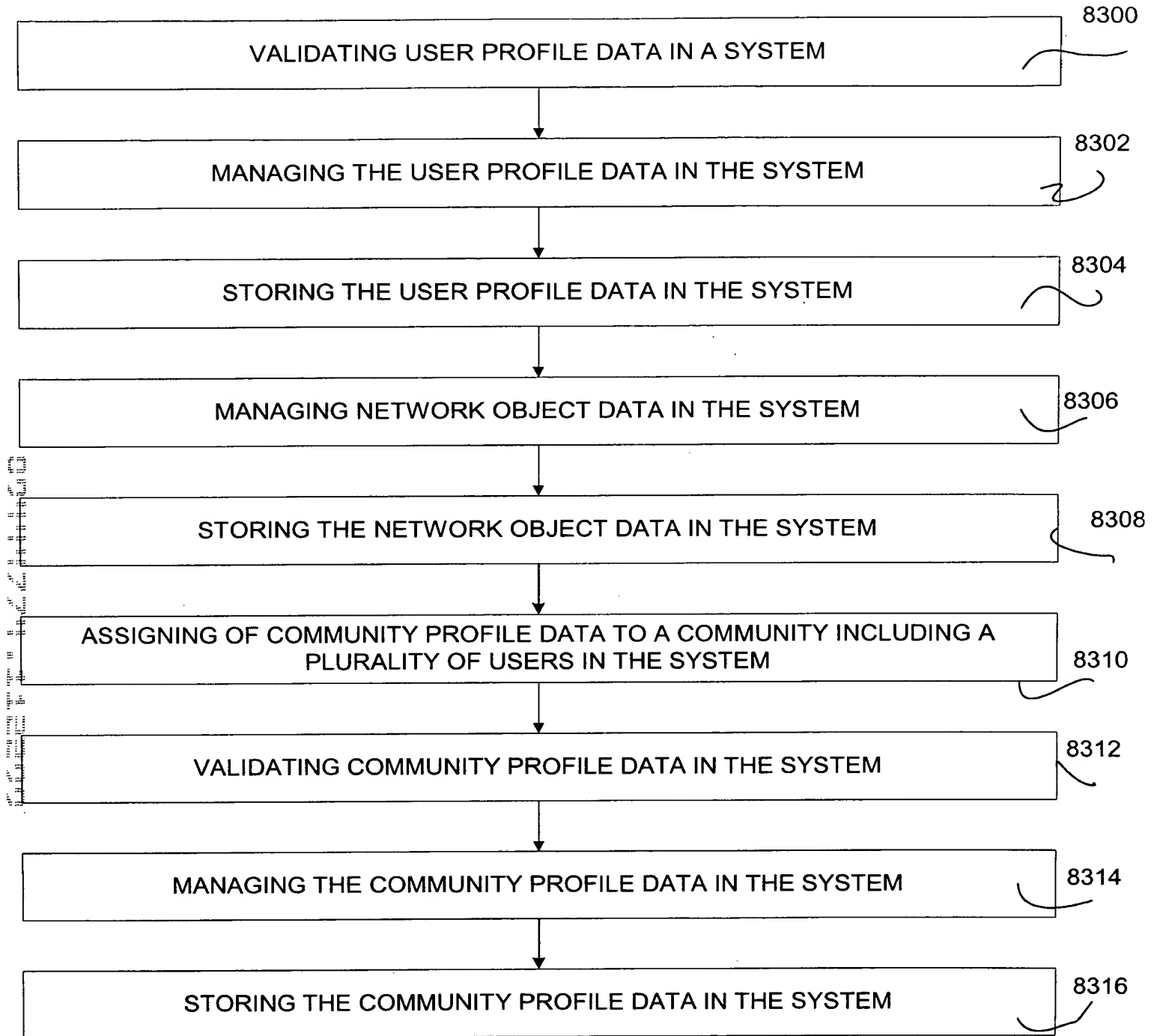
5812

Figure 81



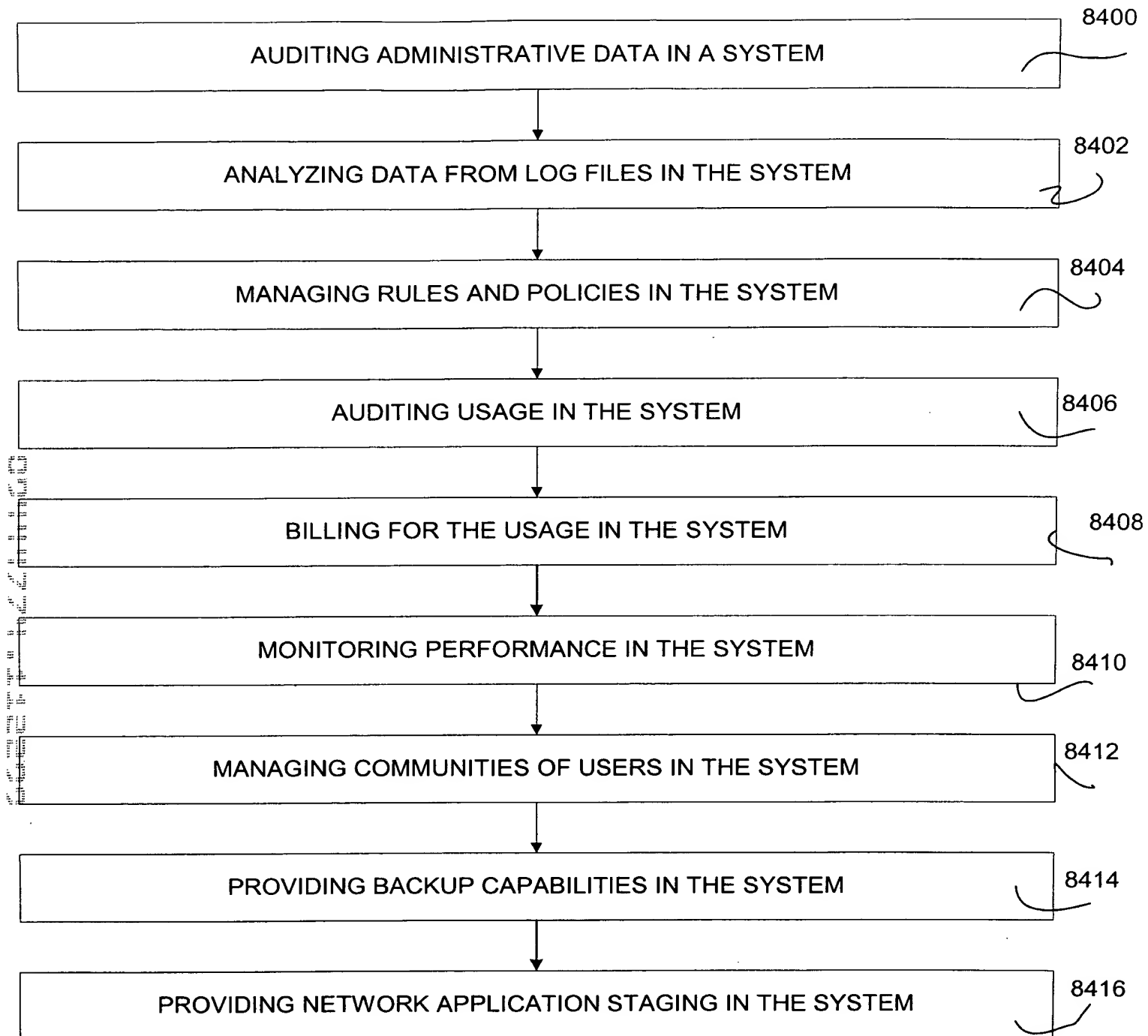
5326

Figure 82



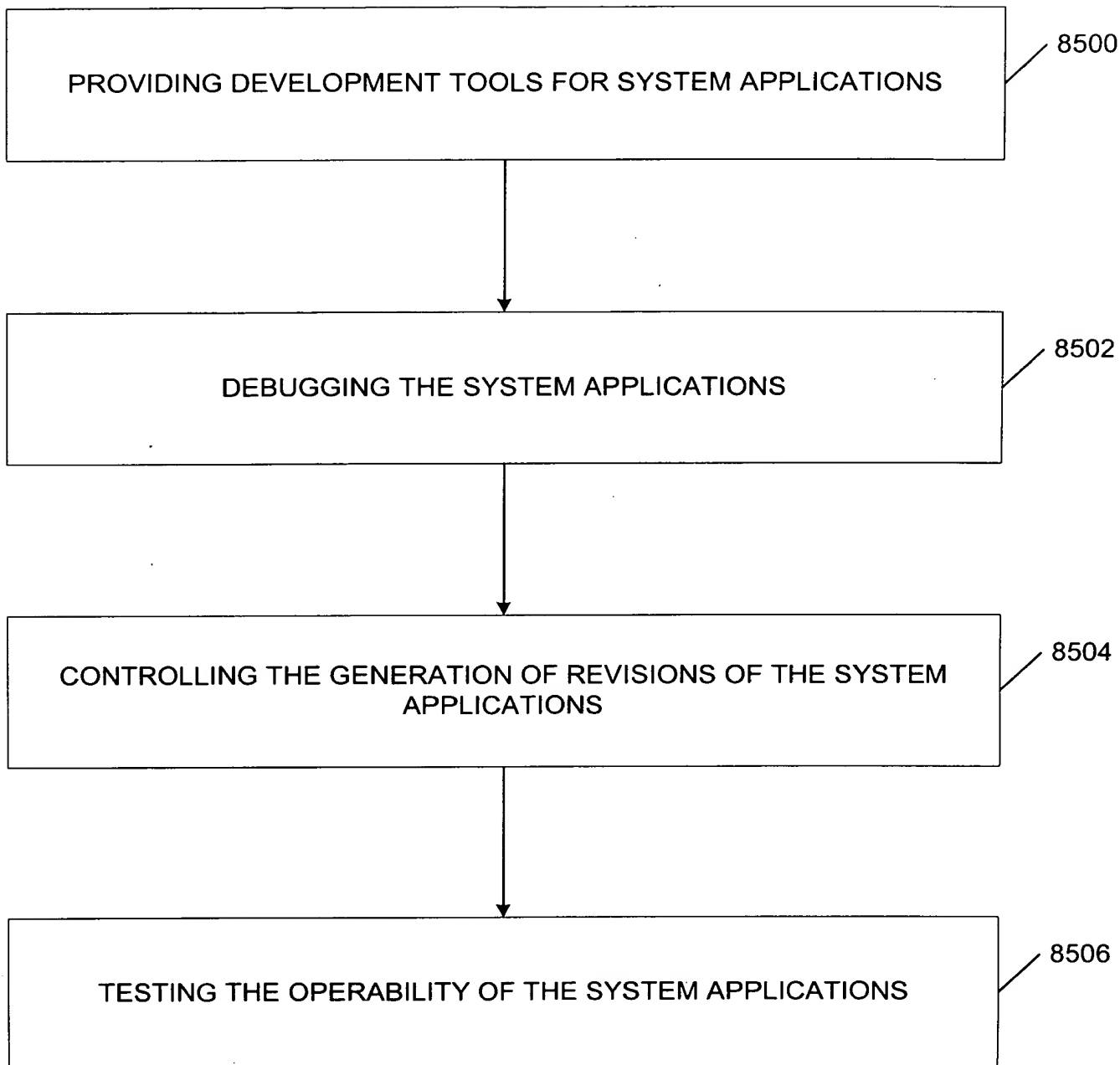
5328

Figure 83



5330

Figure 84



5332

Figure 85

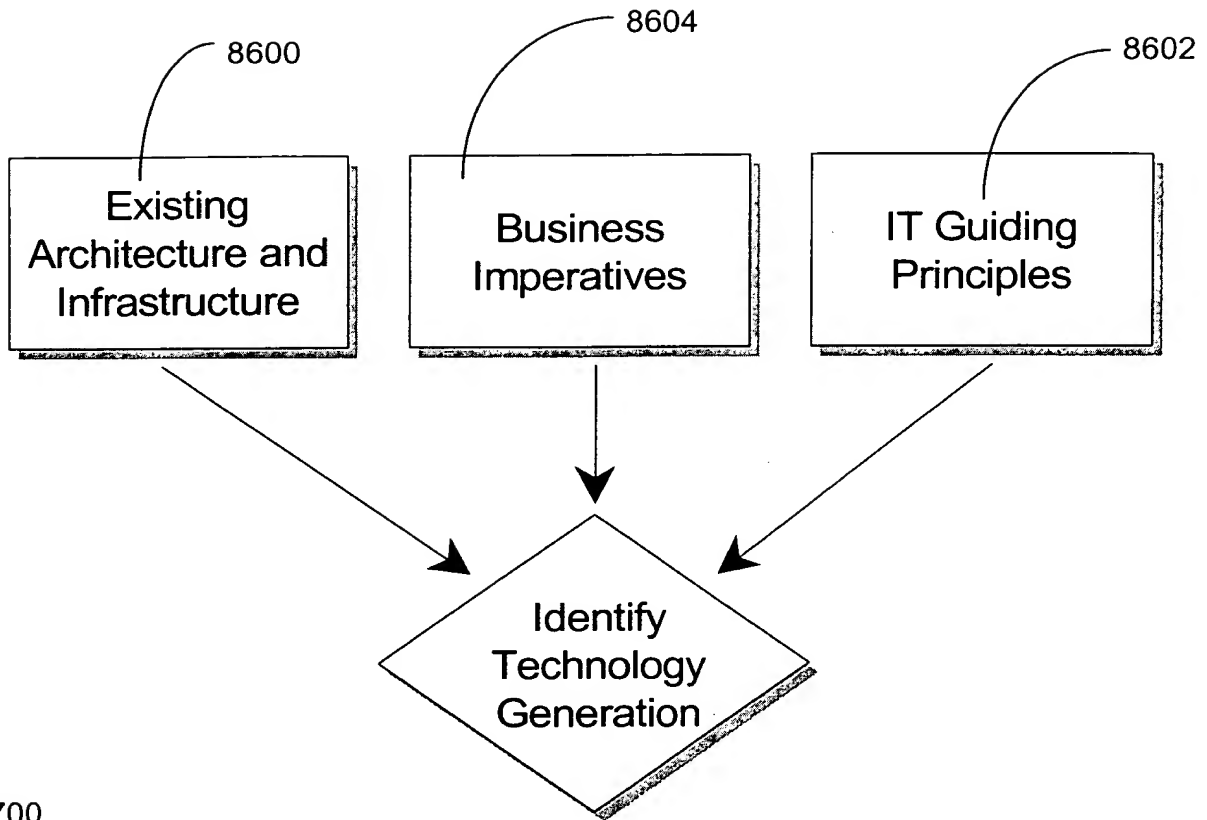


Figure 86

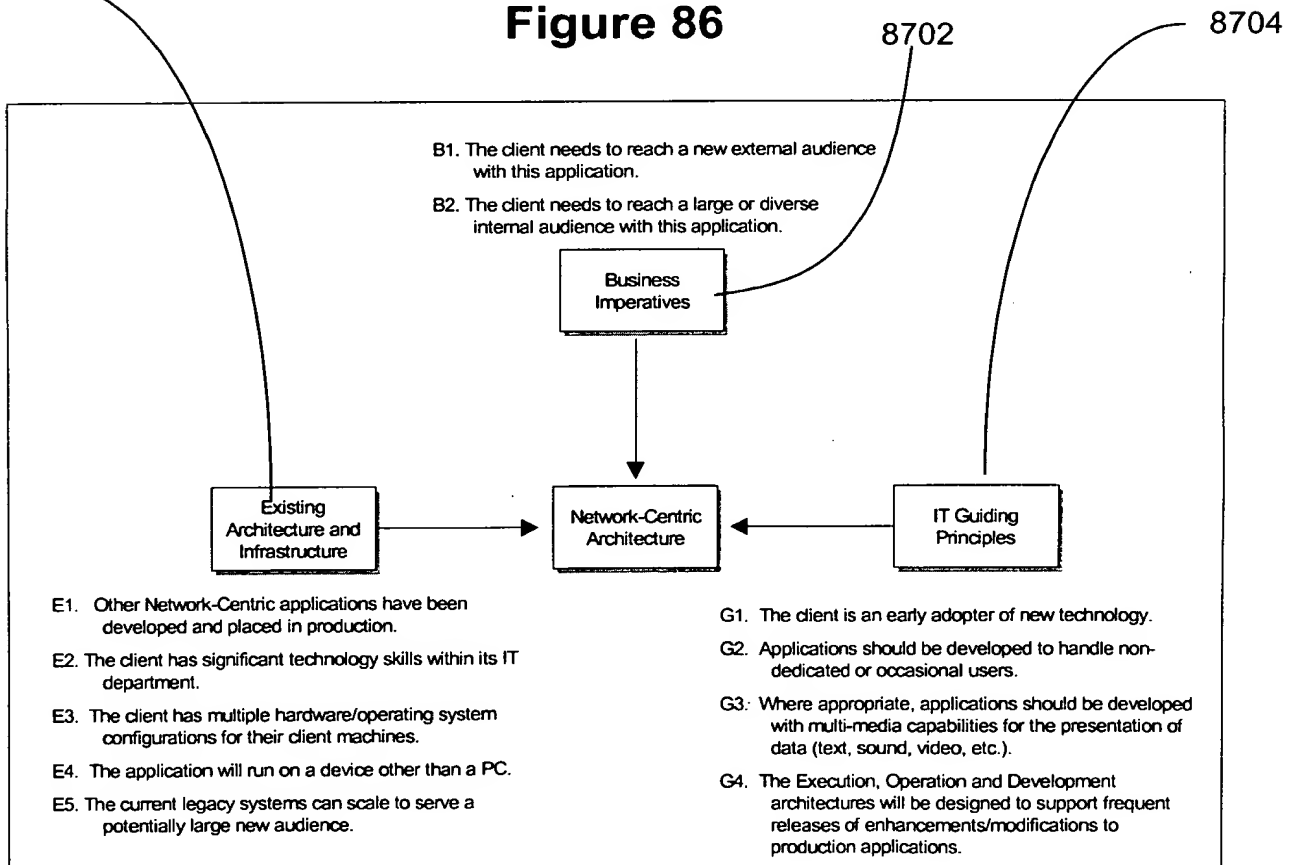


Figure 87

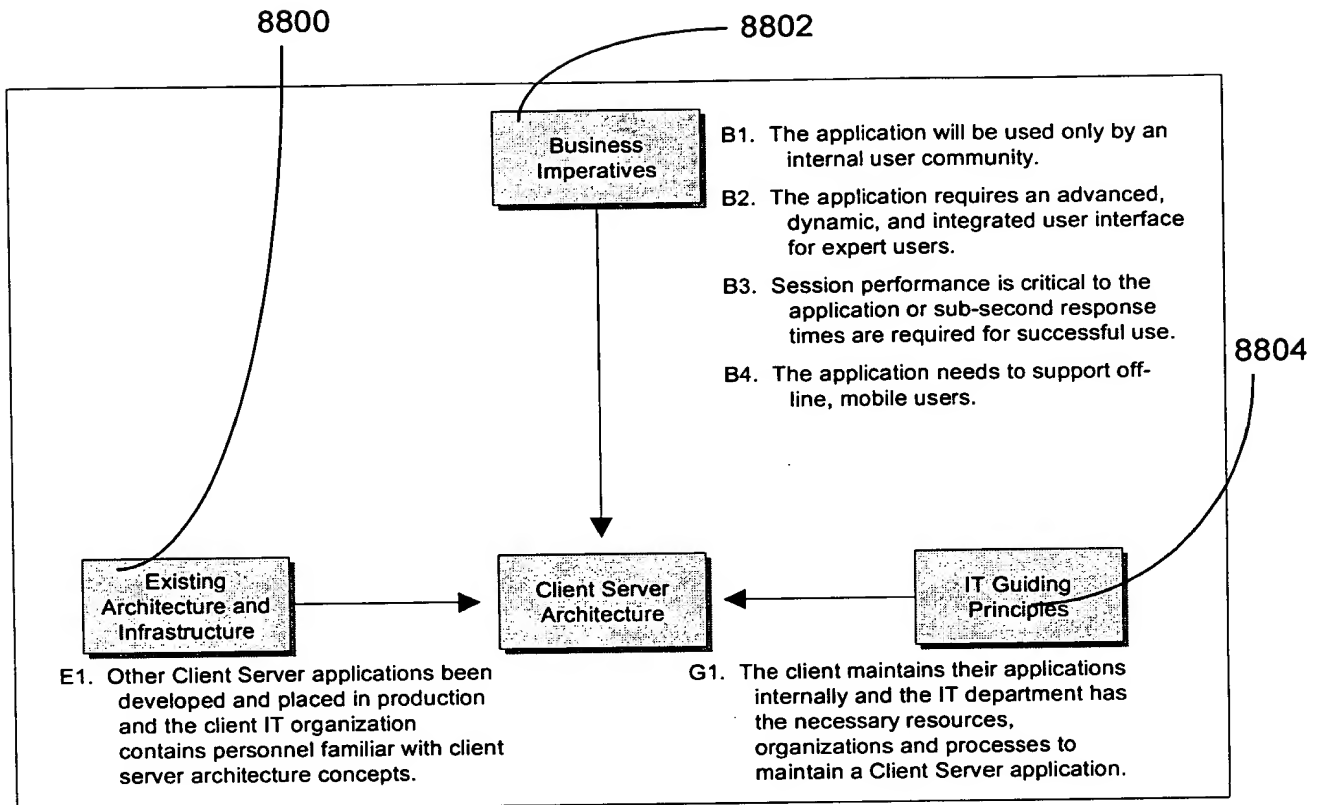
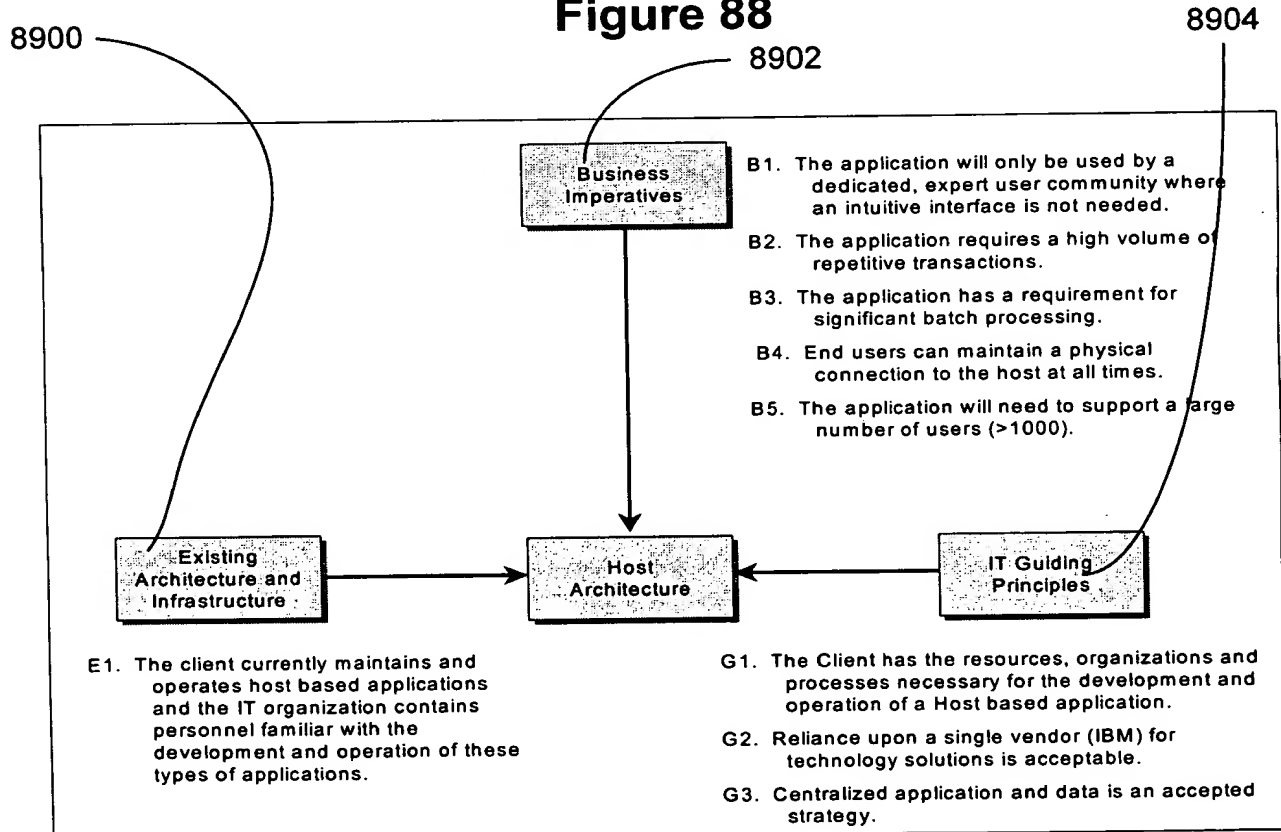


Figure 88



Figur 89

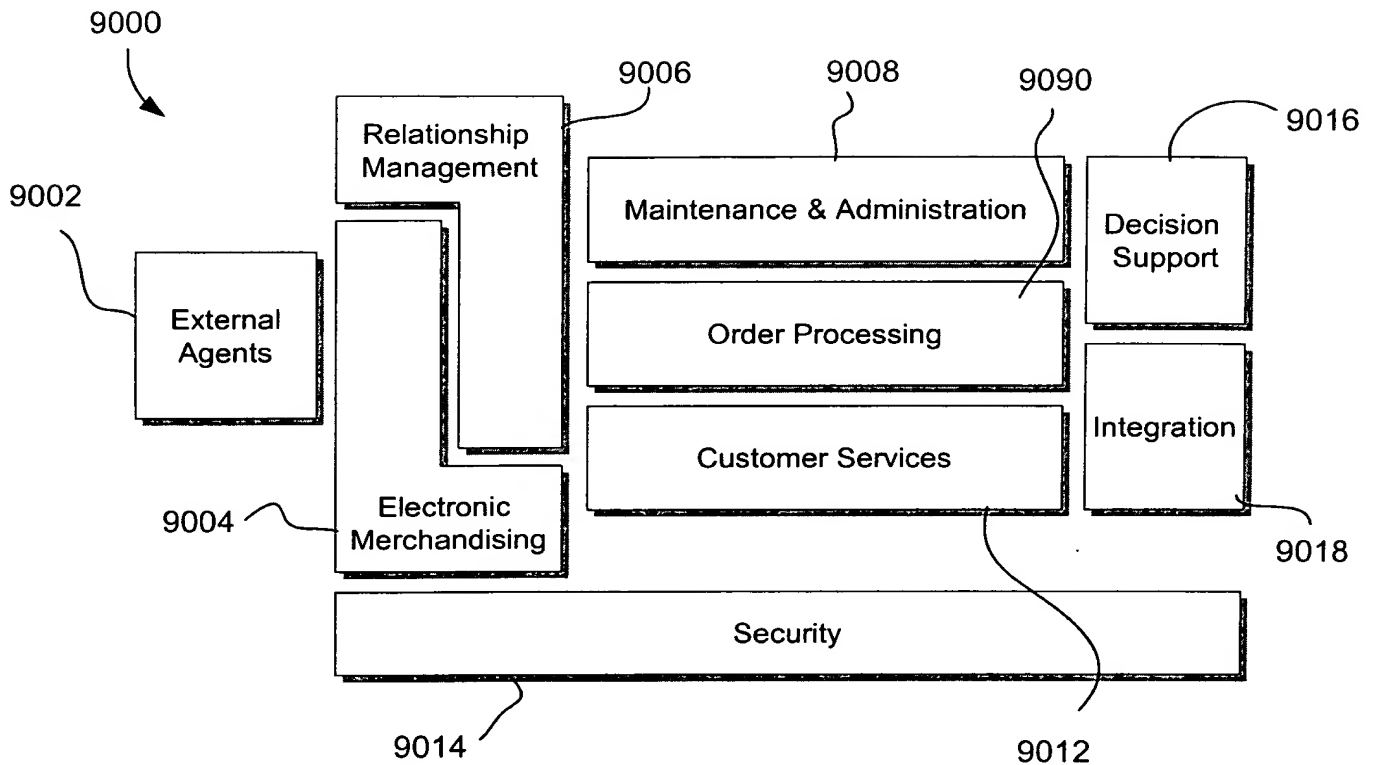


Figure 90

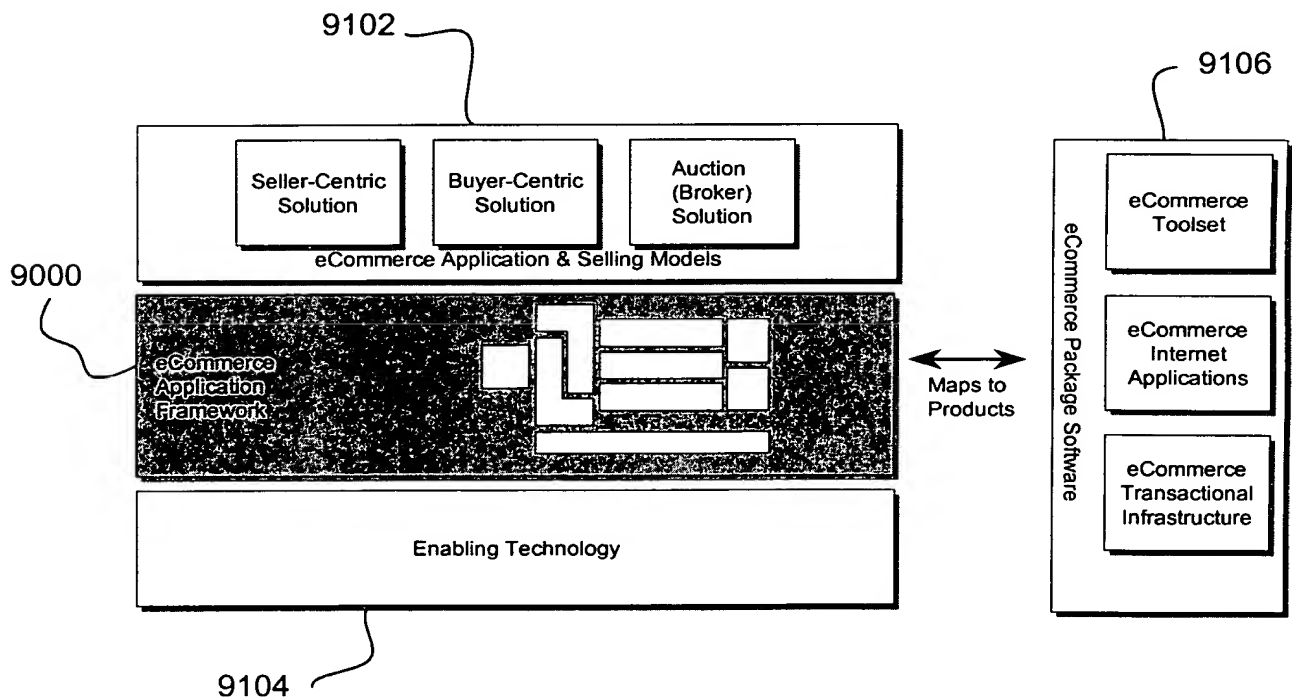


Figure 91

9200

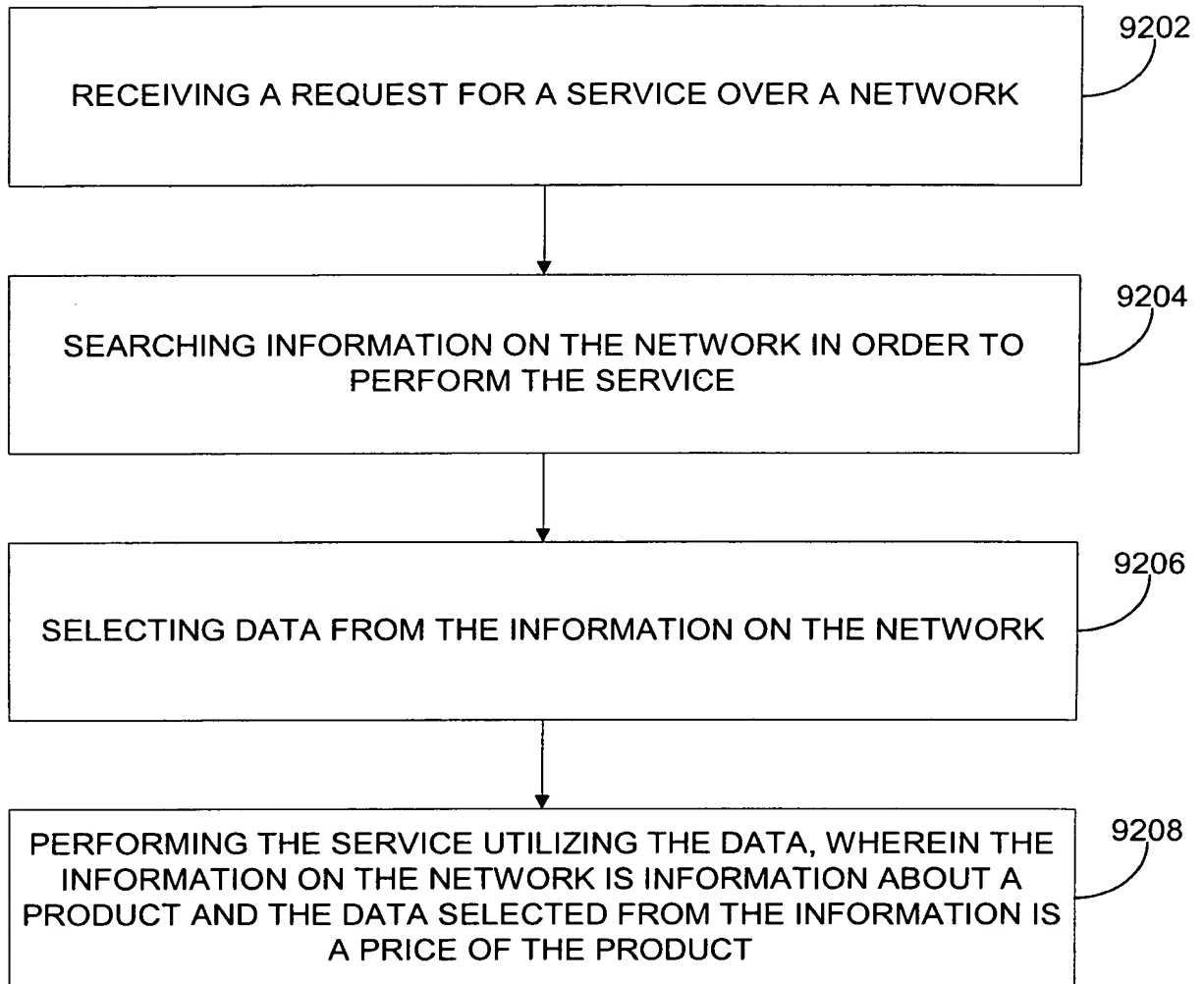


Figure 92

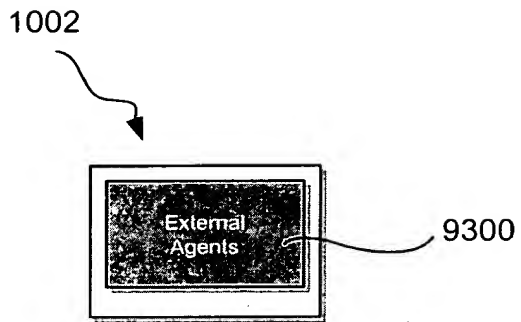


Figure 93

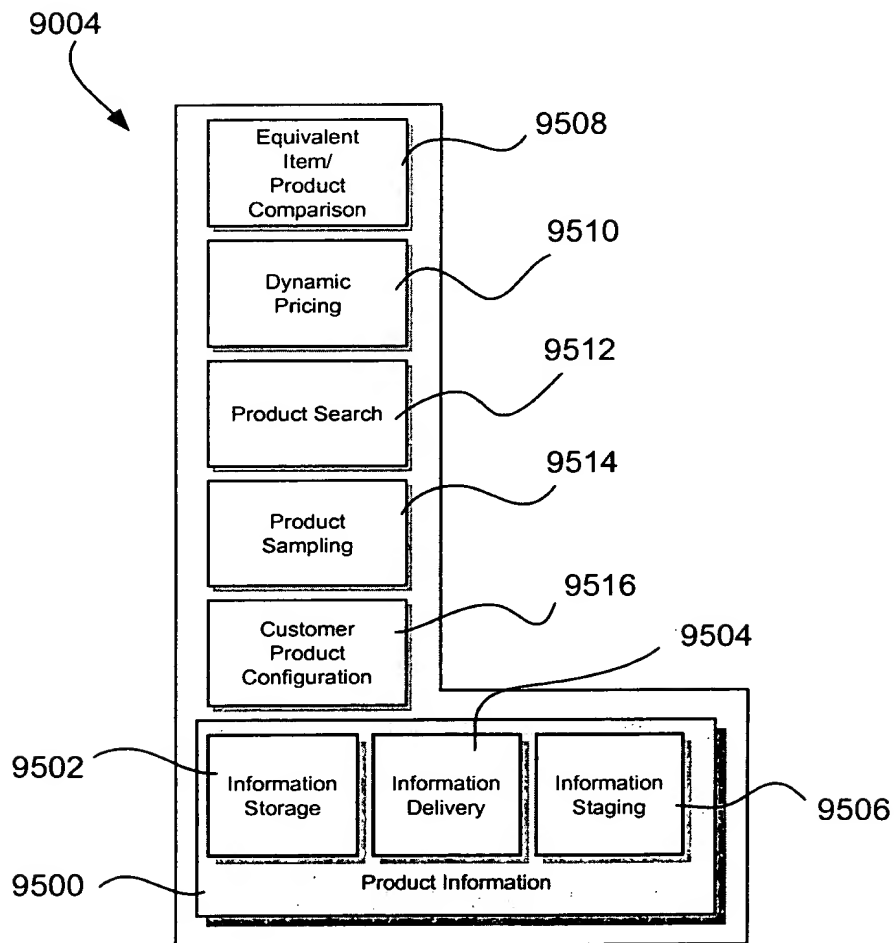


Figure 95

9400

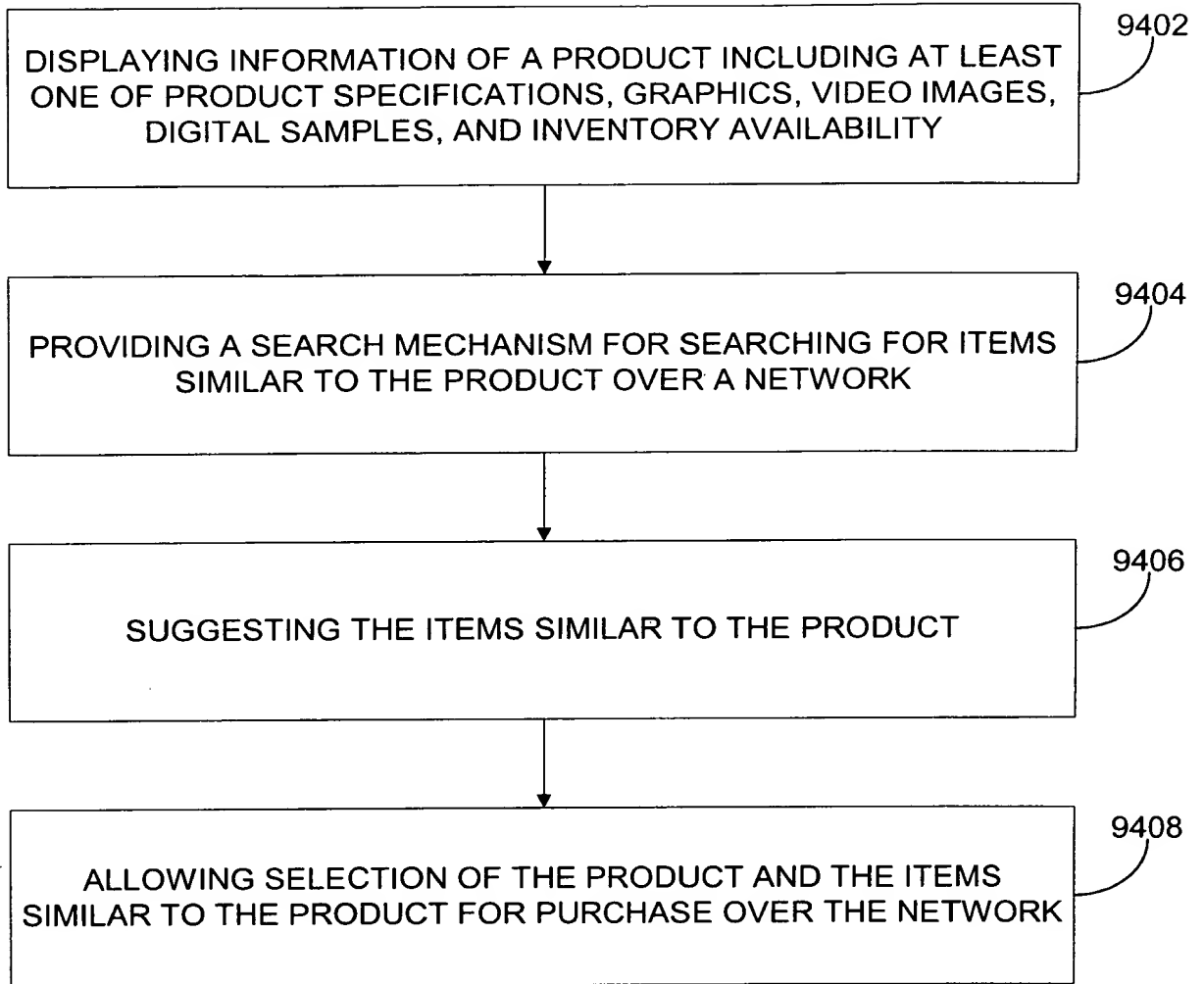


Figure 94

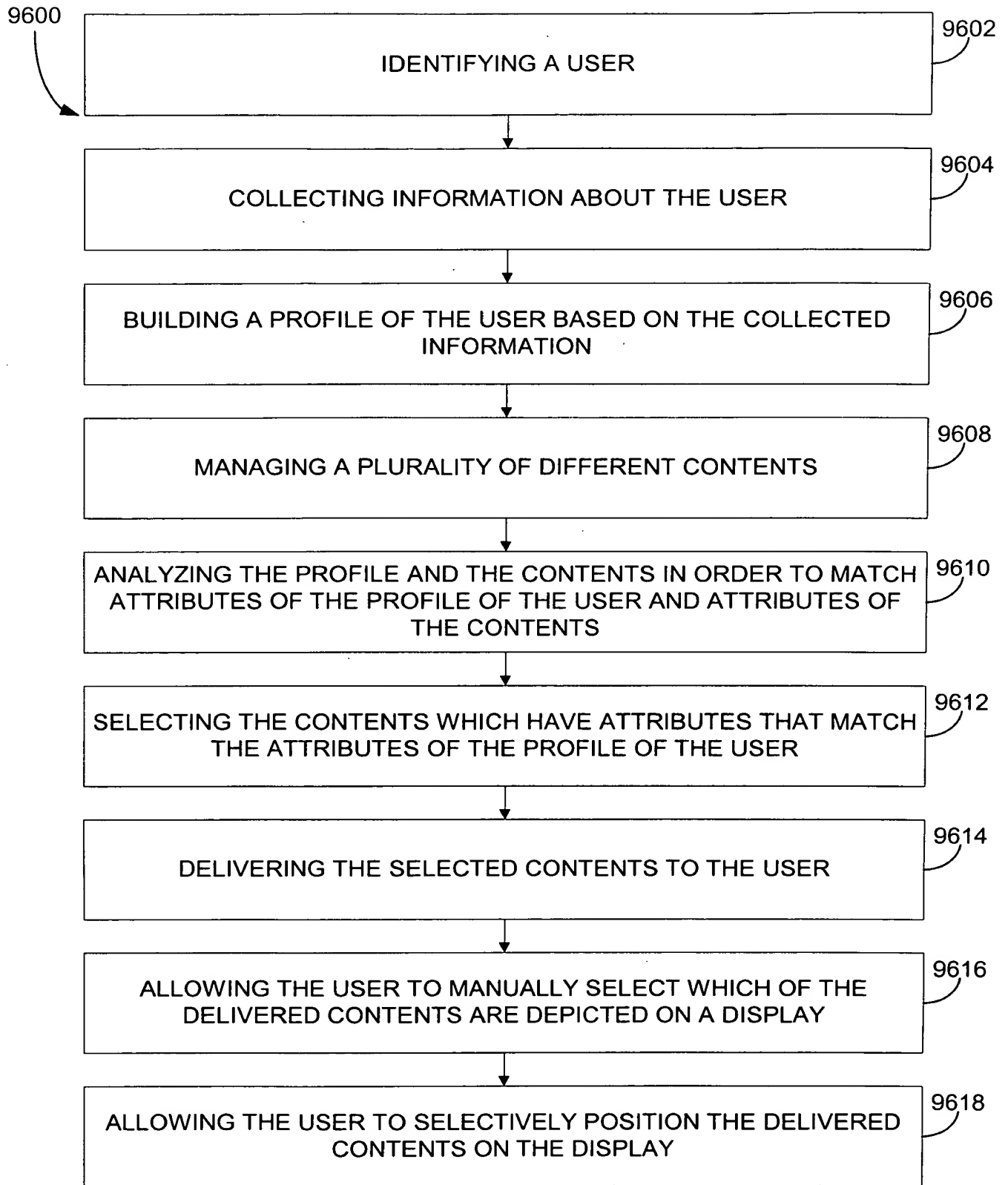


Figure 96

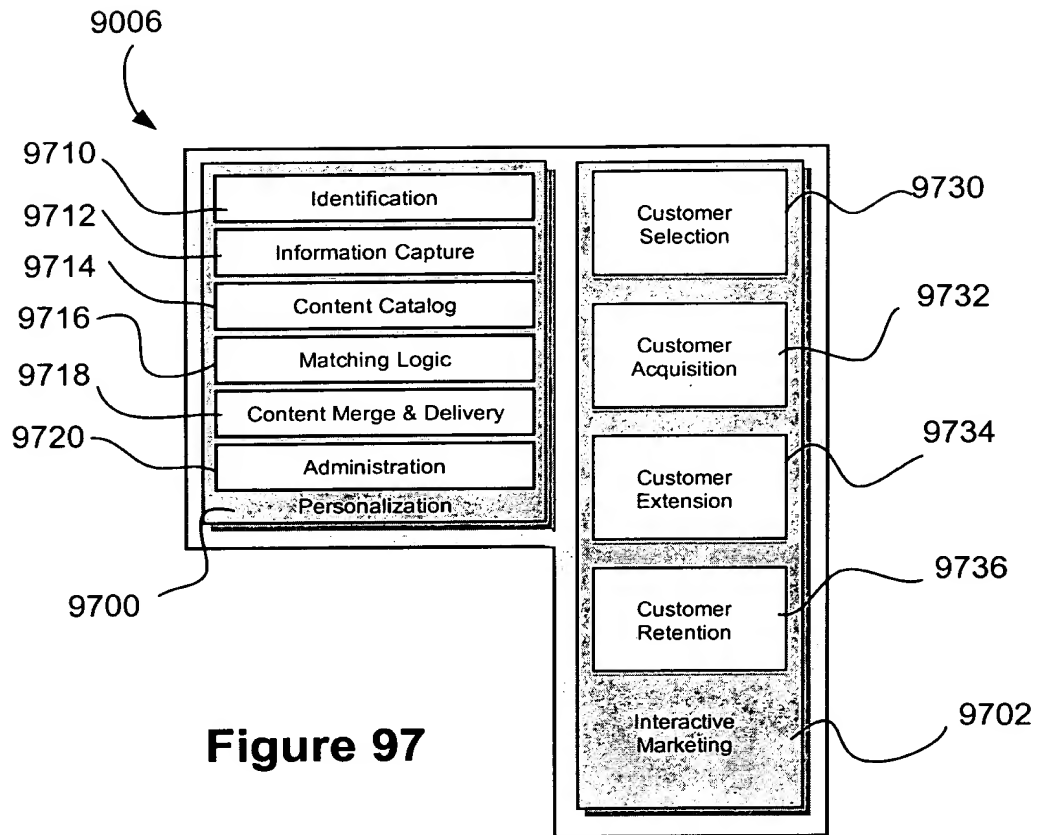


Figure 97

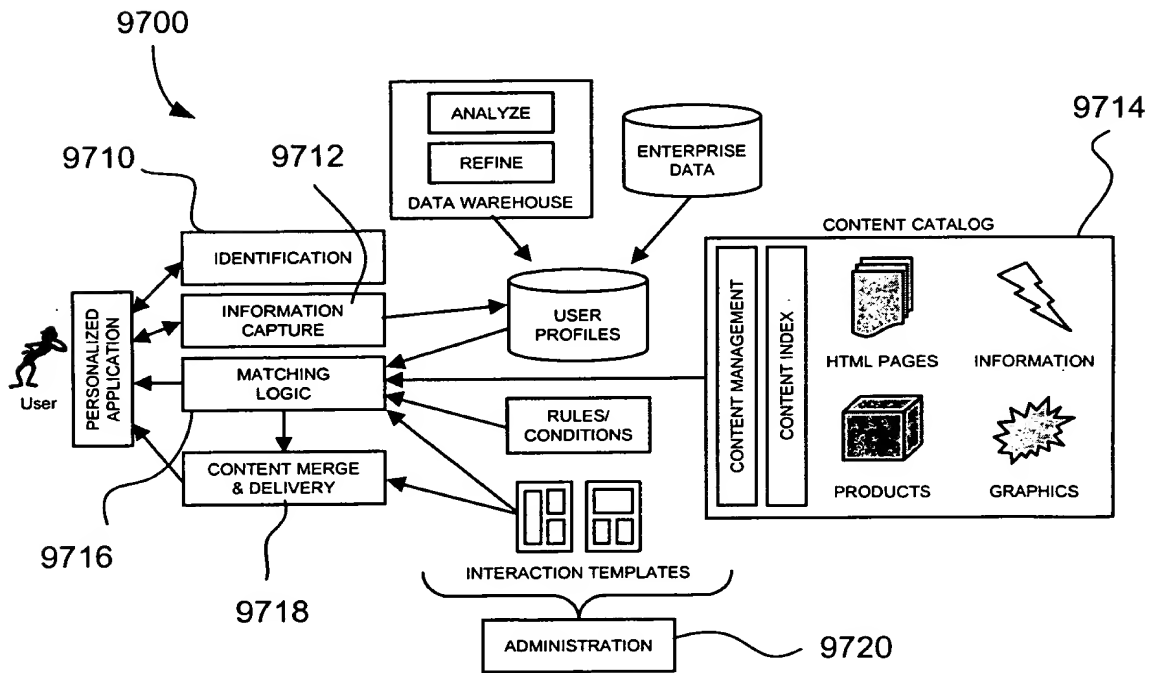


Figure 98

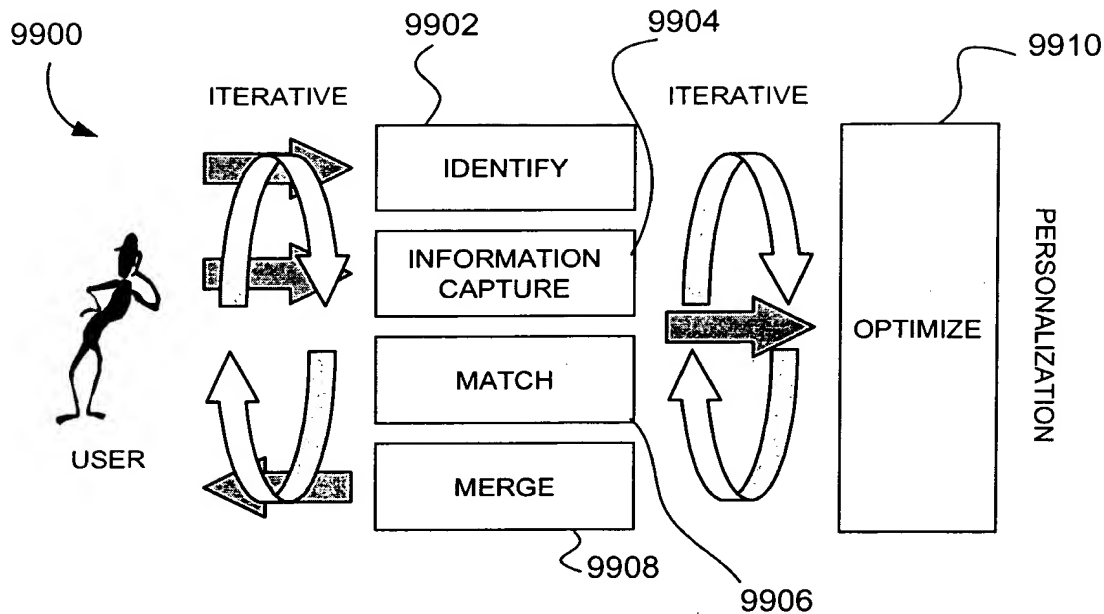


Figure 99

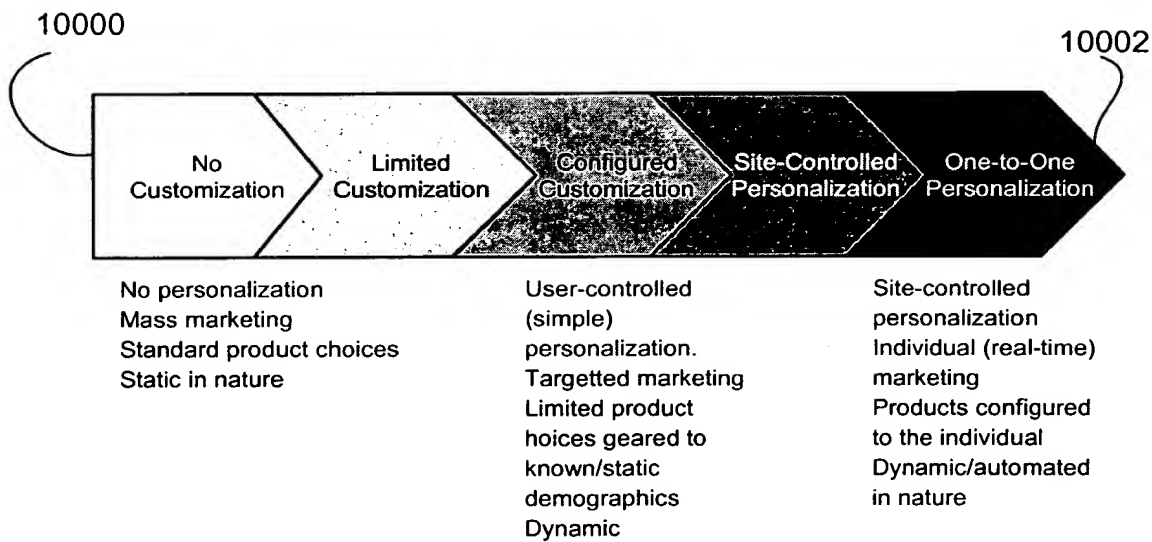


Figure 100

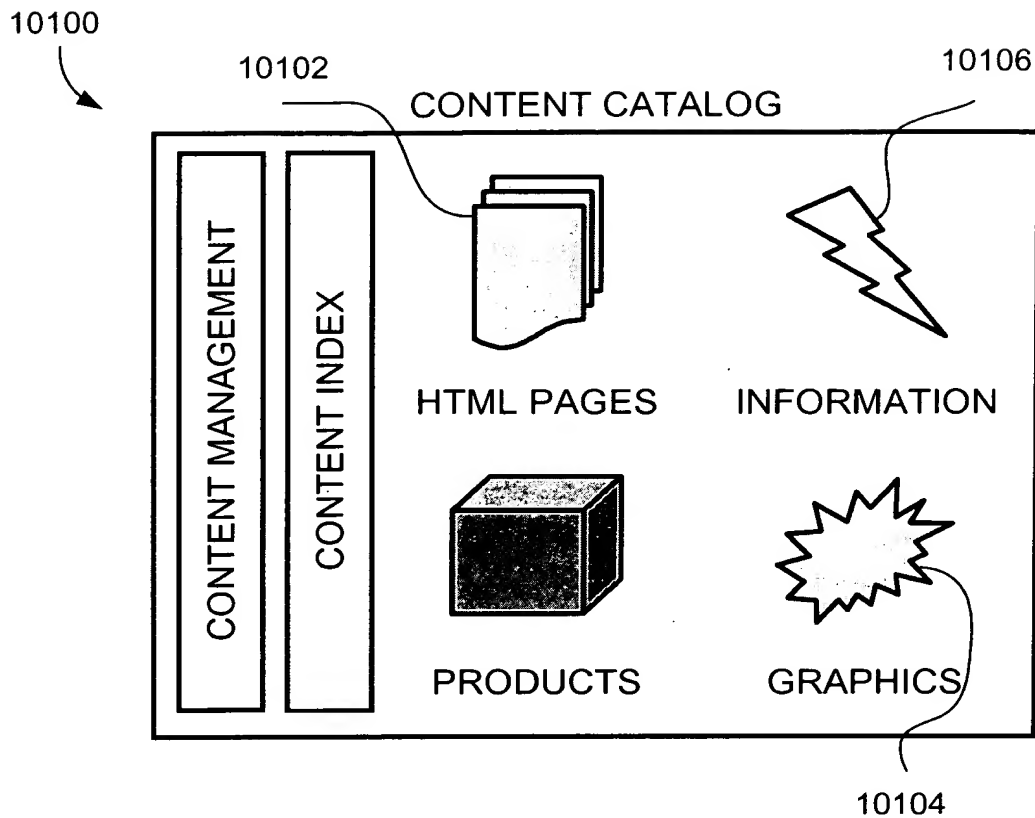


Figure 101

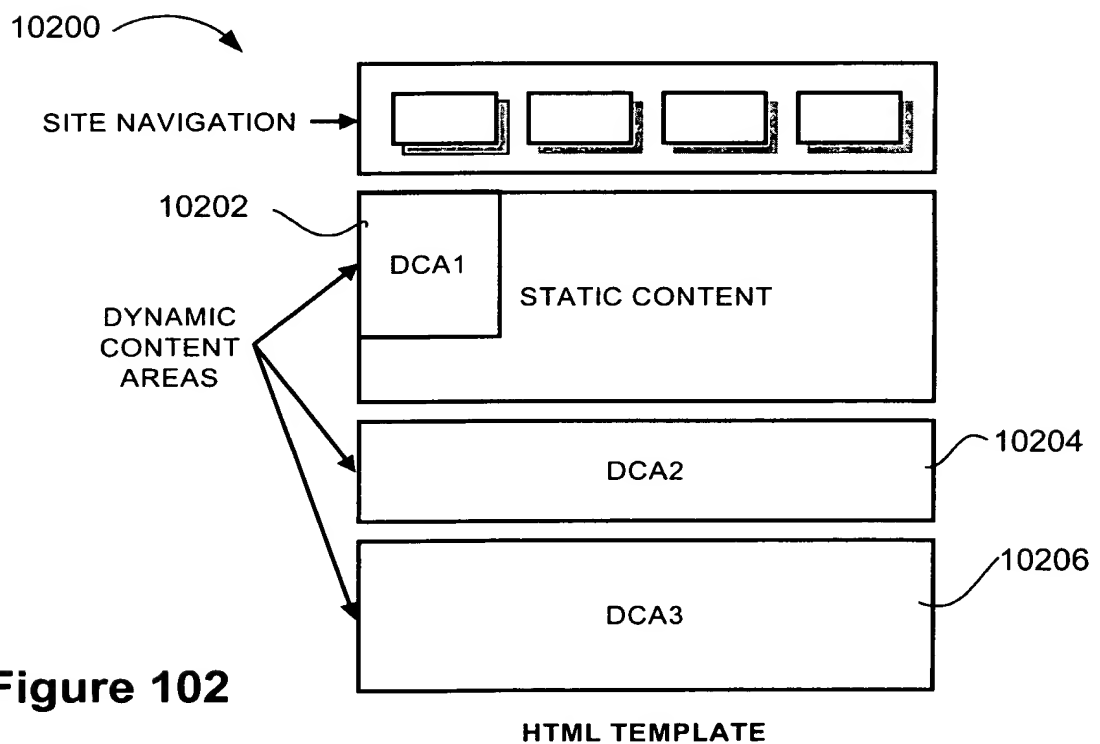


Figure 102

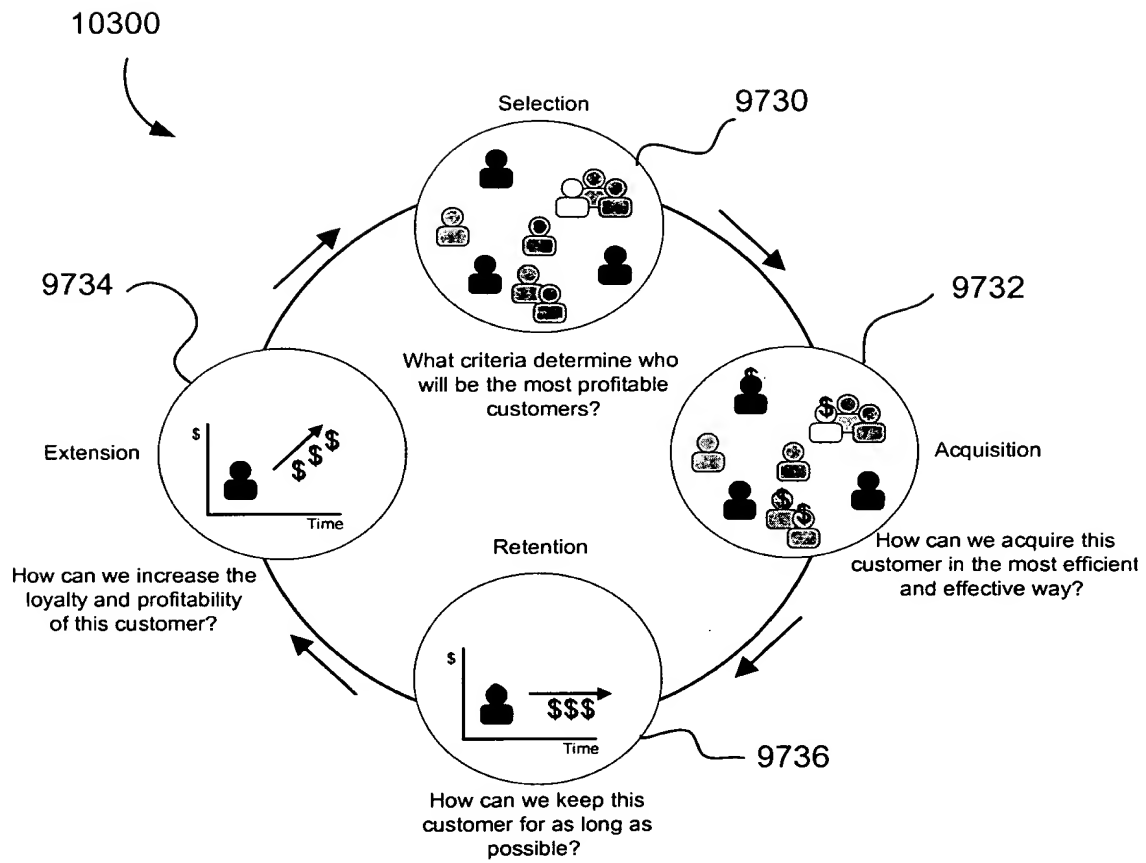


Figure 103

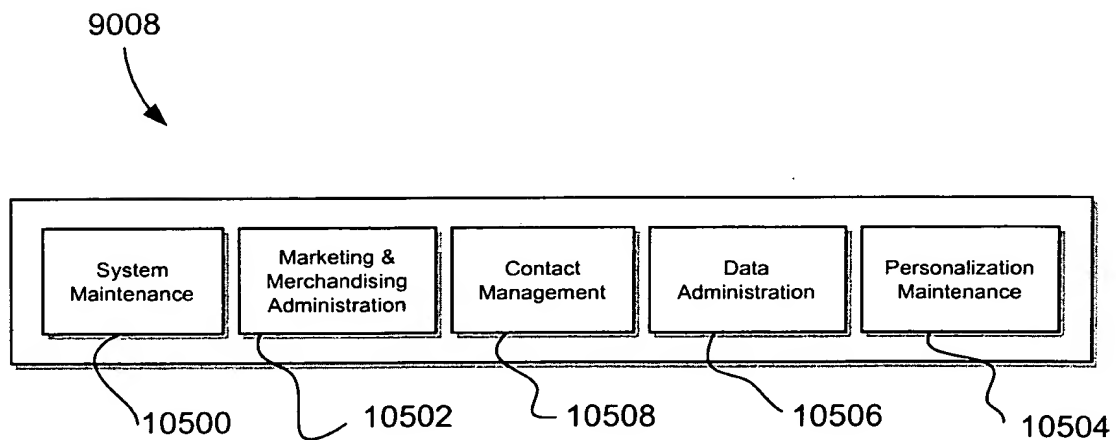


Figure 105

10400

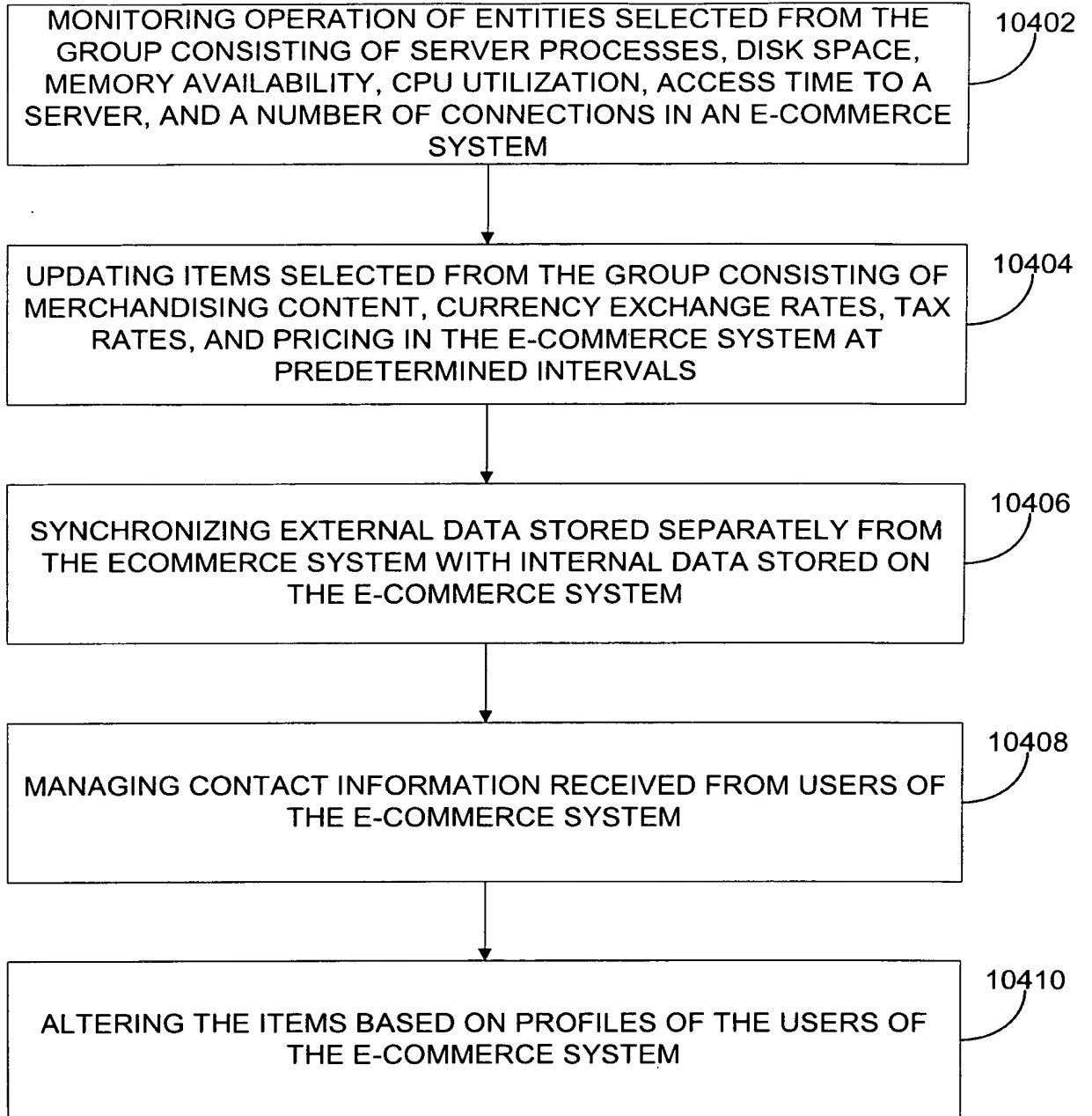


Figure 104

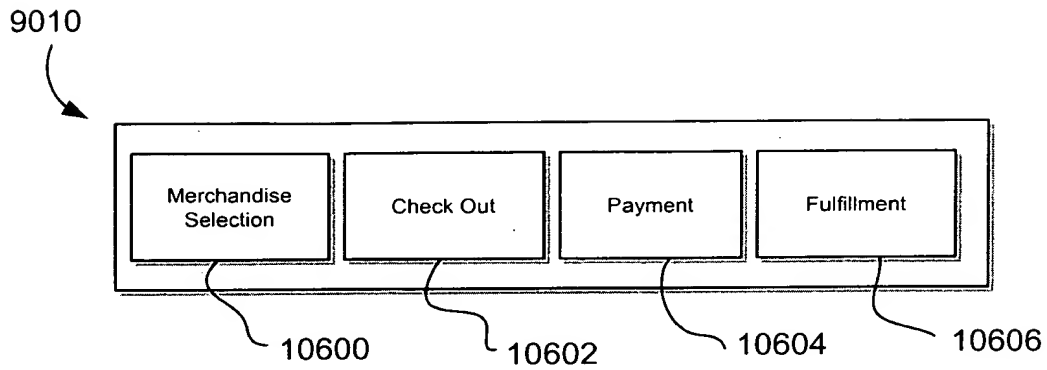


Figure 106

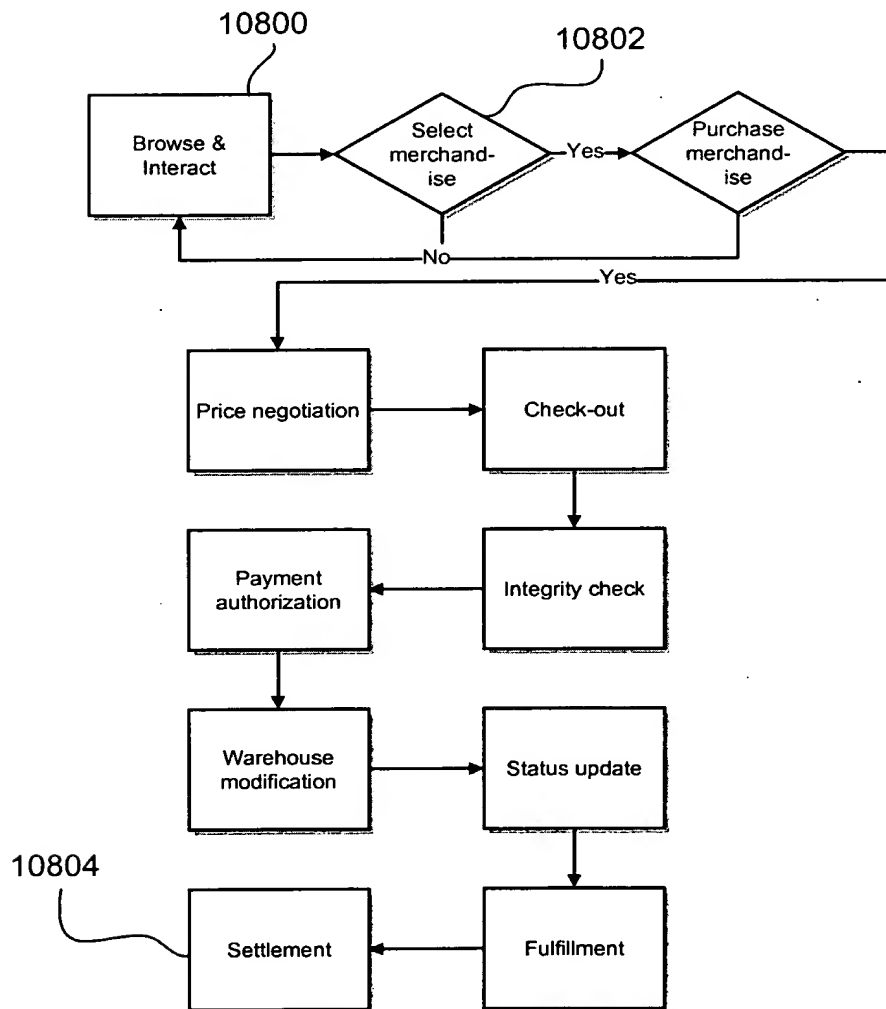


Figure 108

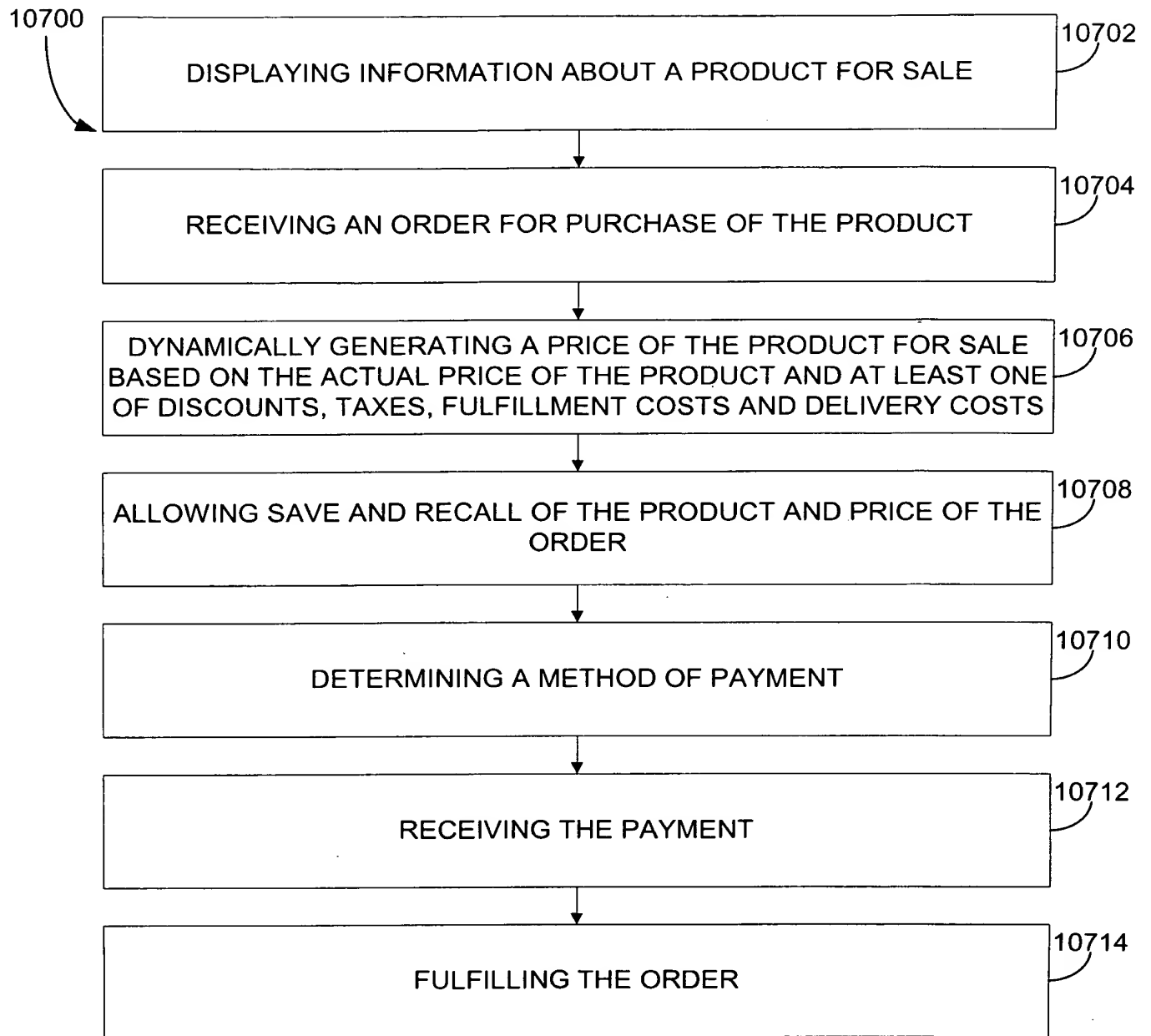


Figure 107

10900

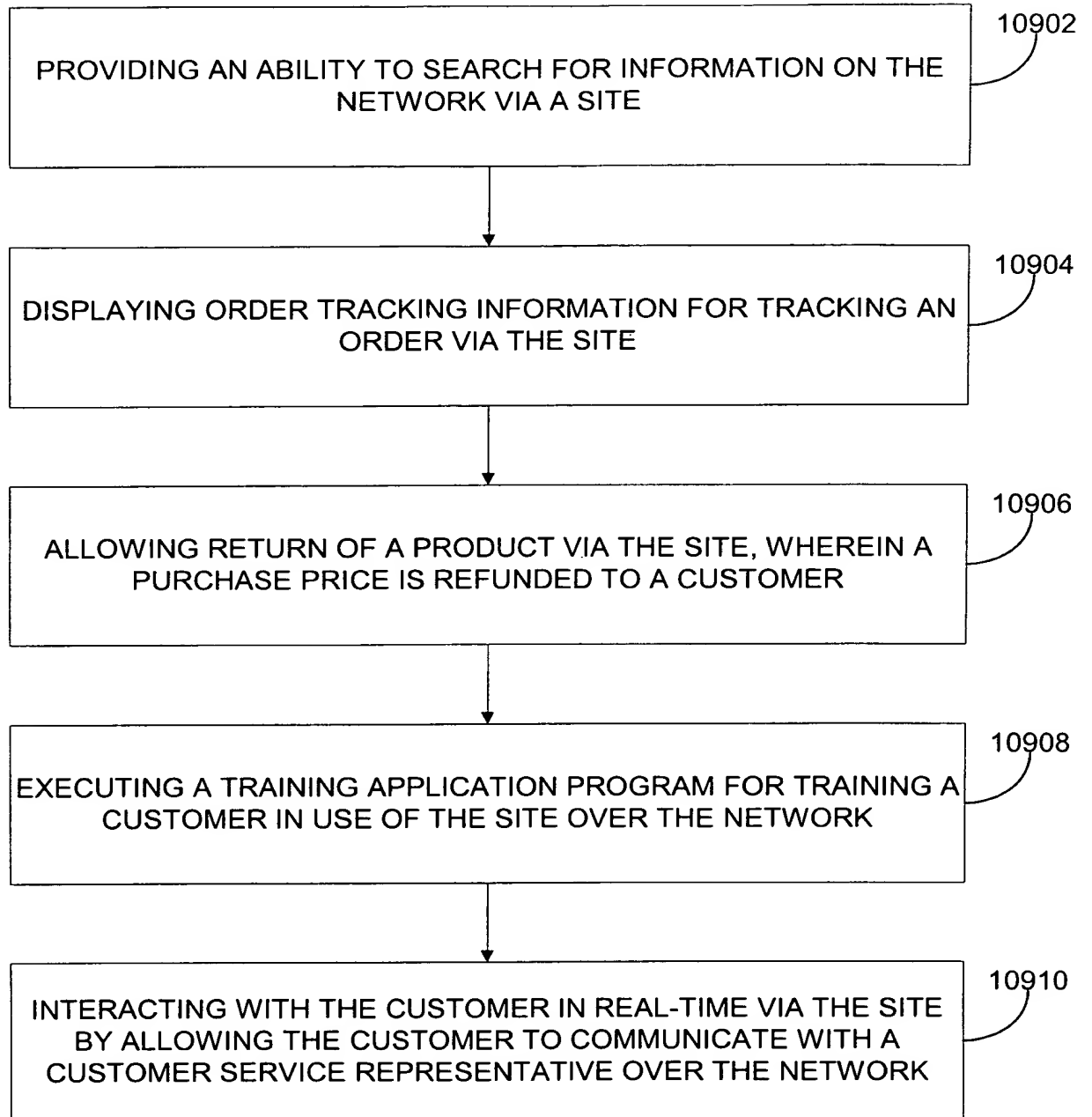


Figure 109

9012

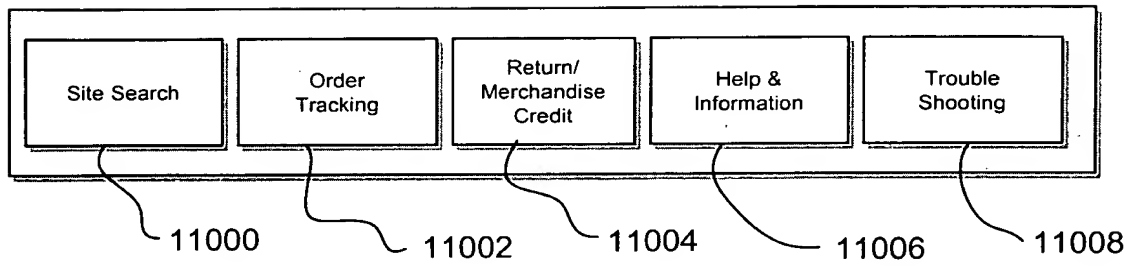


Figure 110

9014

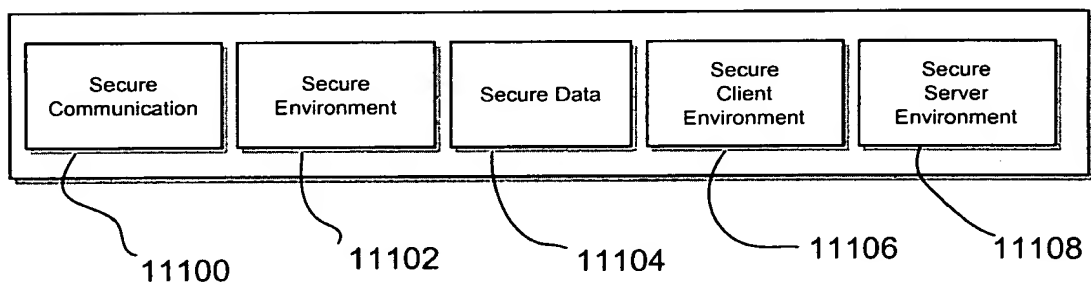


Figure 111

11200

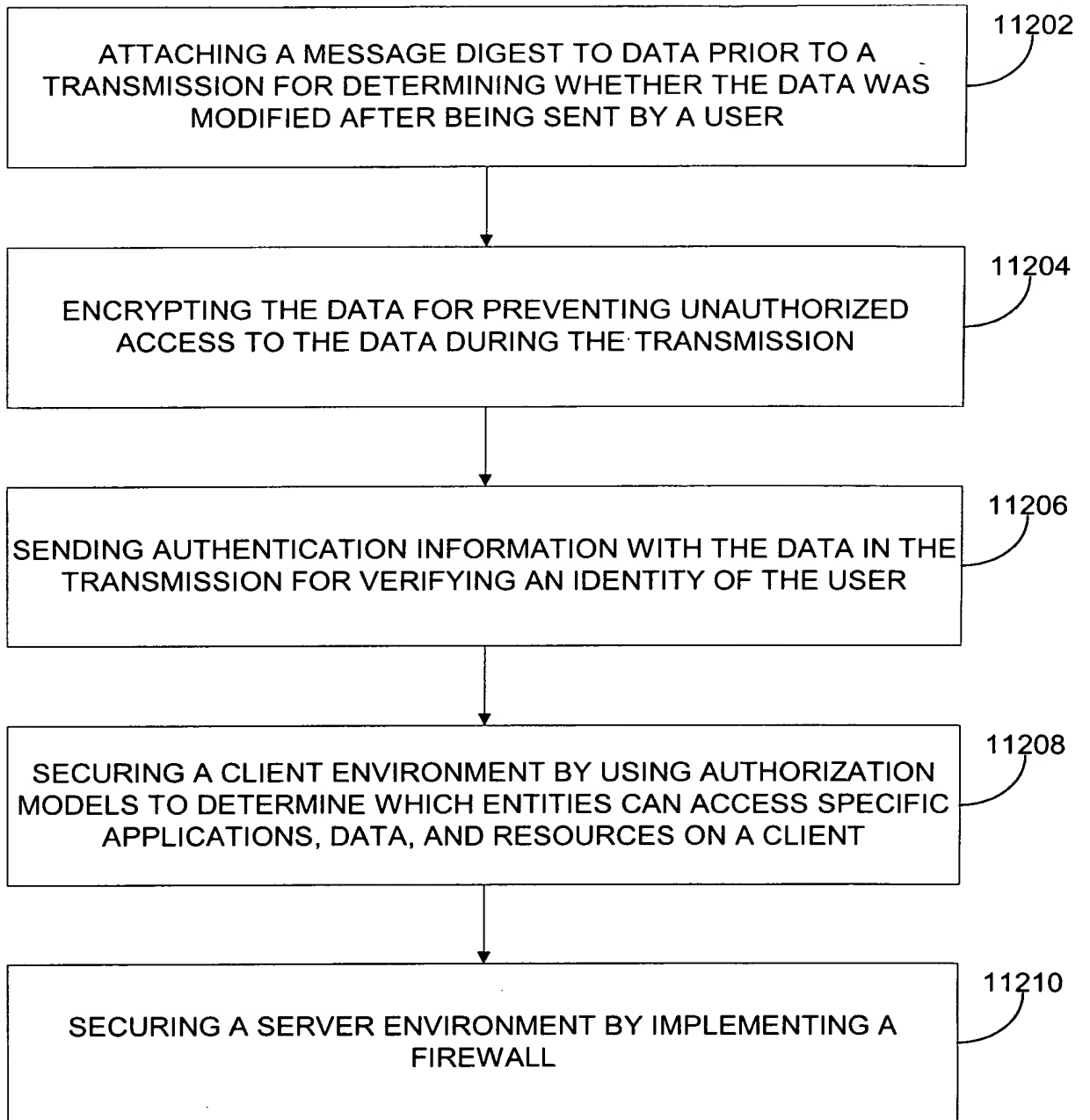


Figure 112

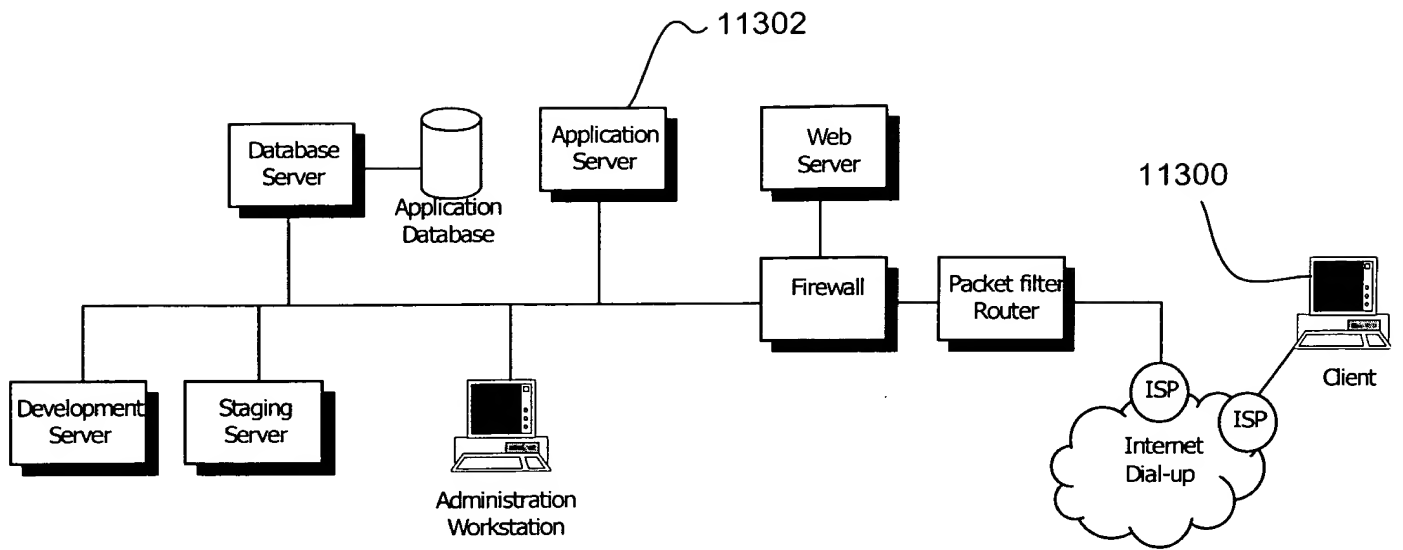


Figure 113

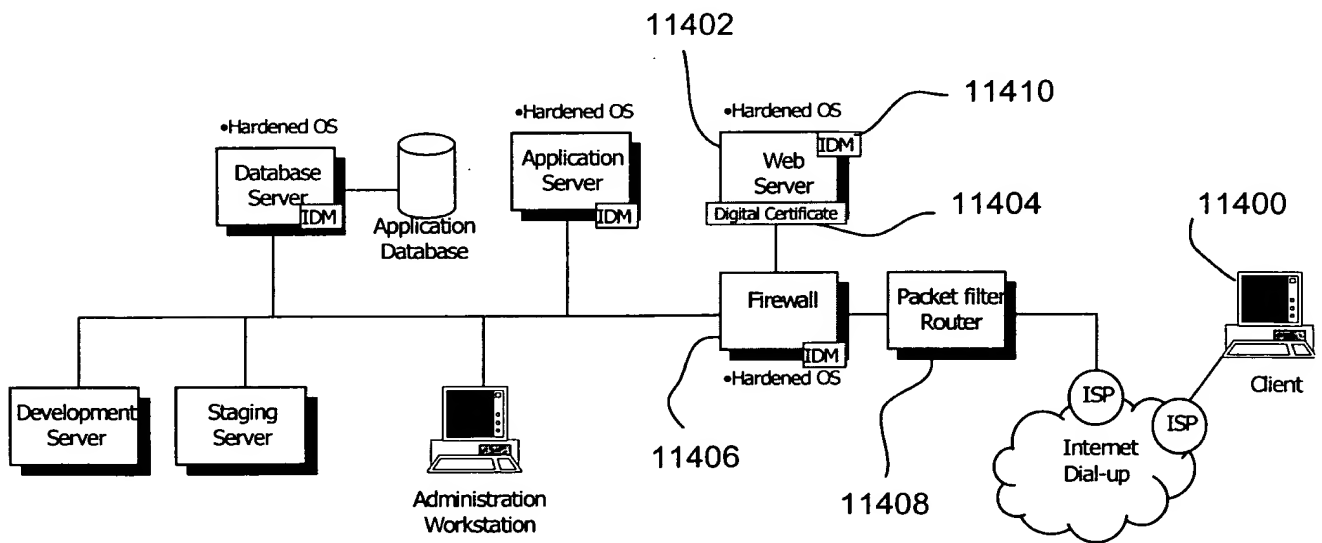


Figure 114

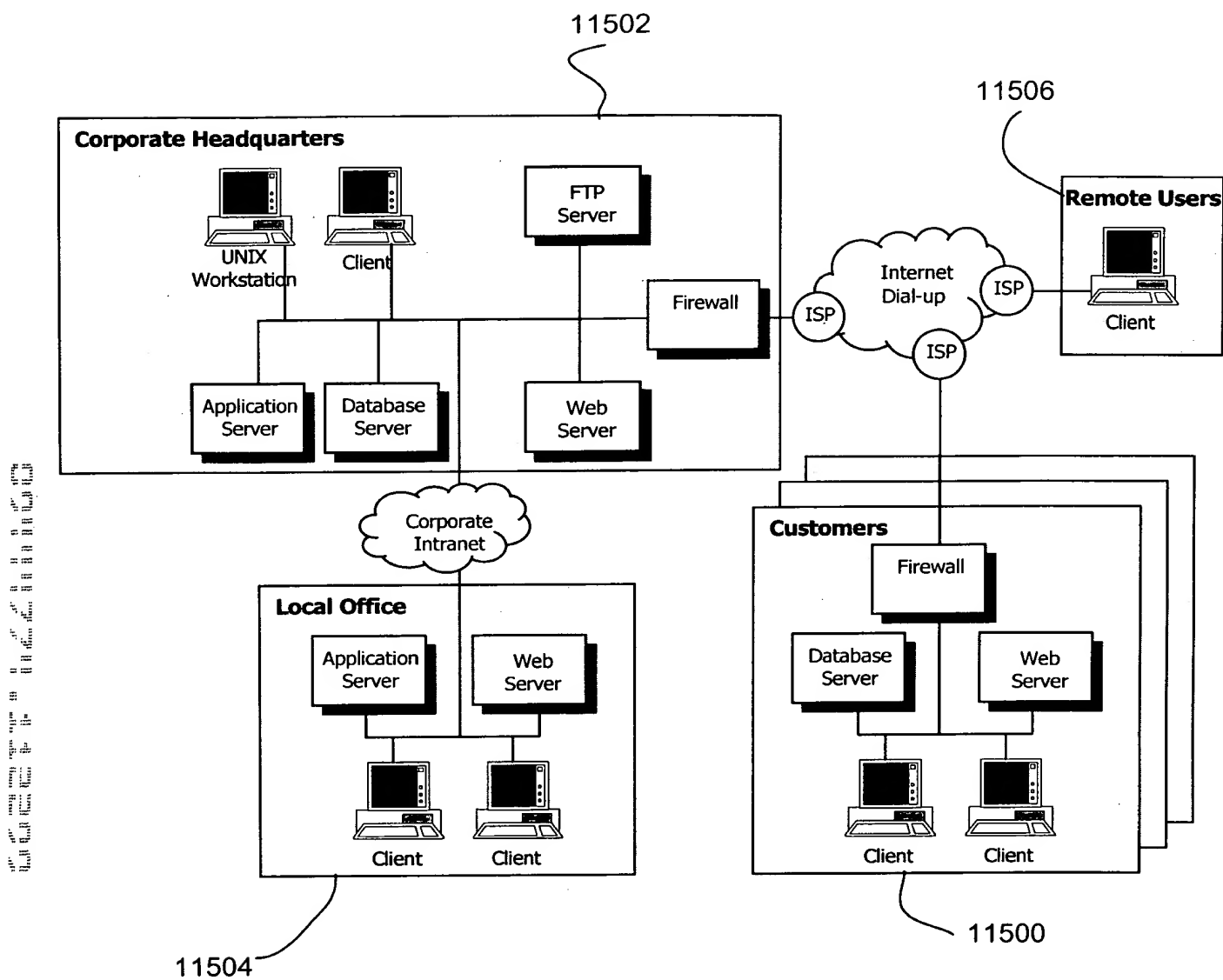


Figure 115

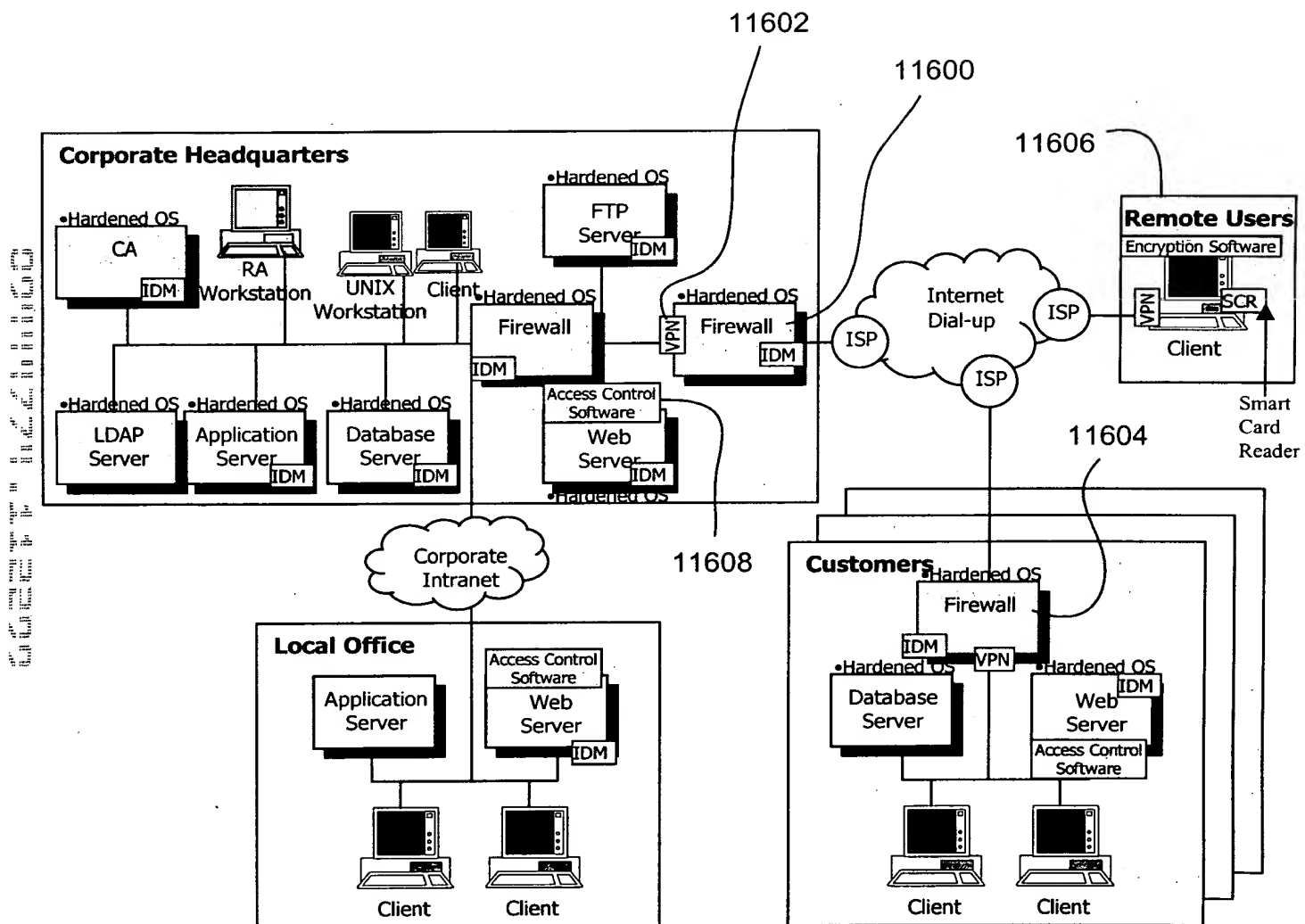


Figure 116

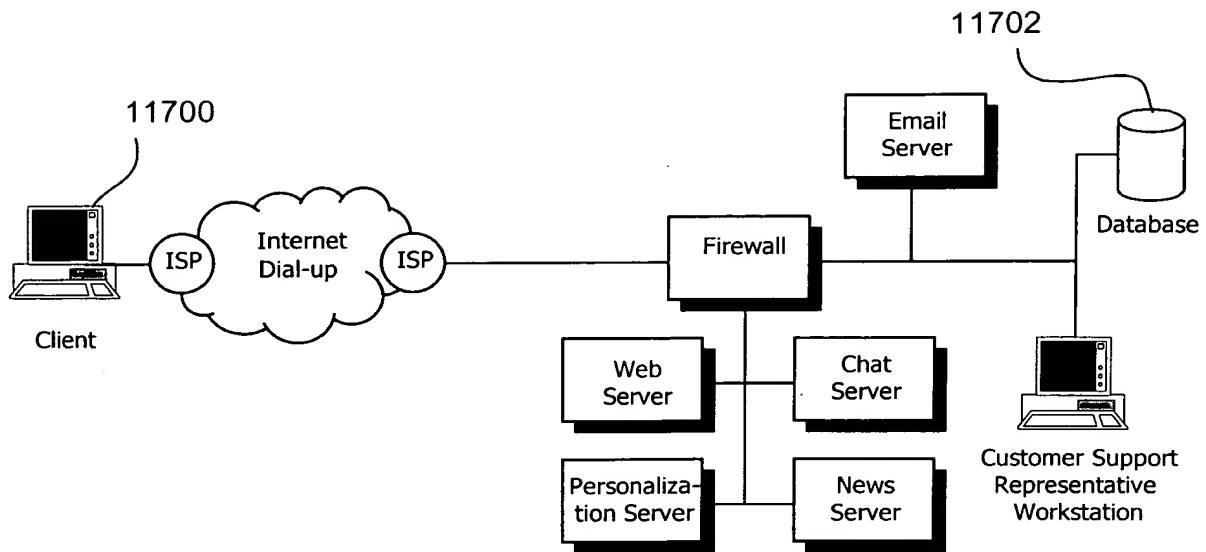


Figure 117

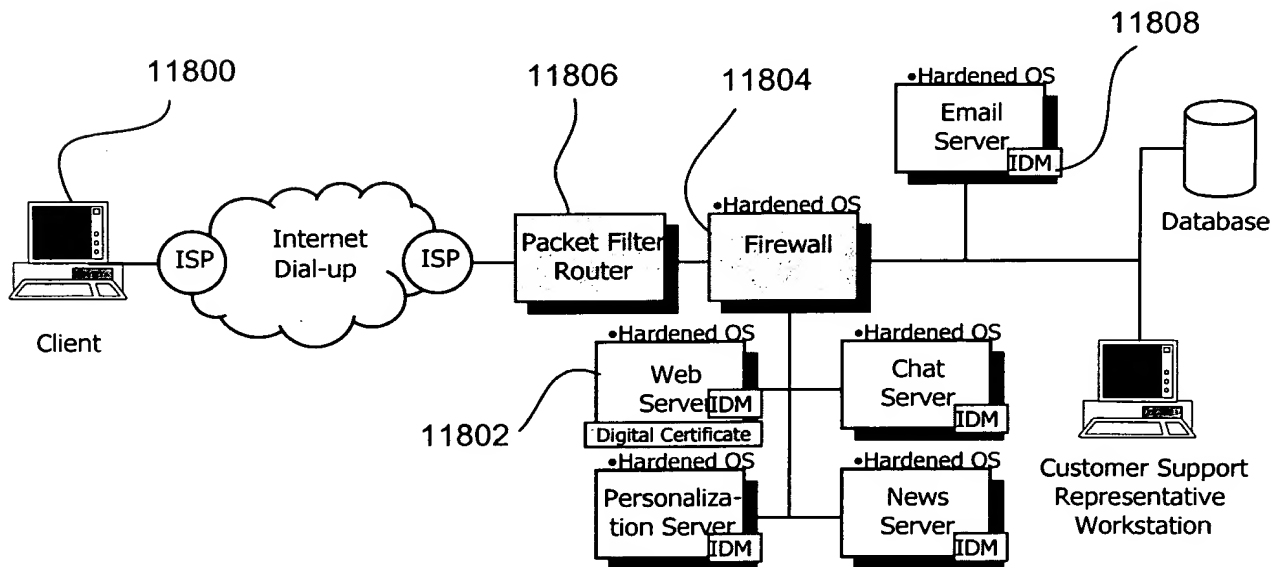


Figure 118

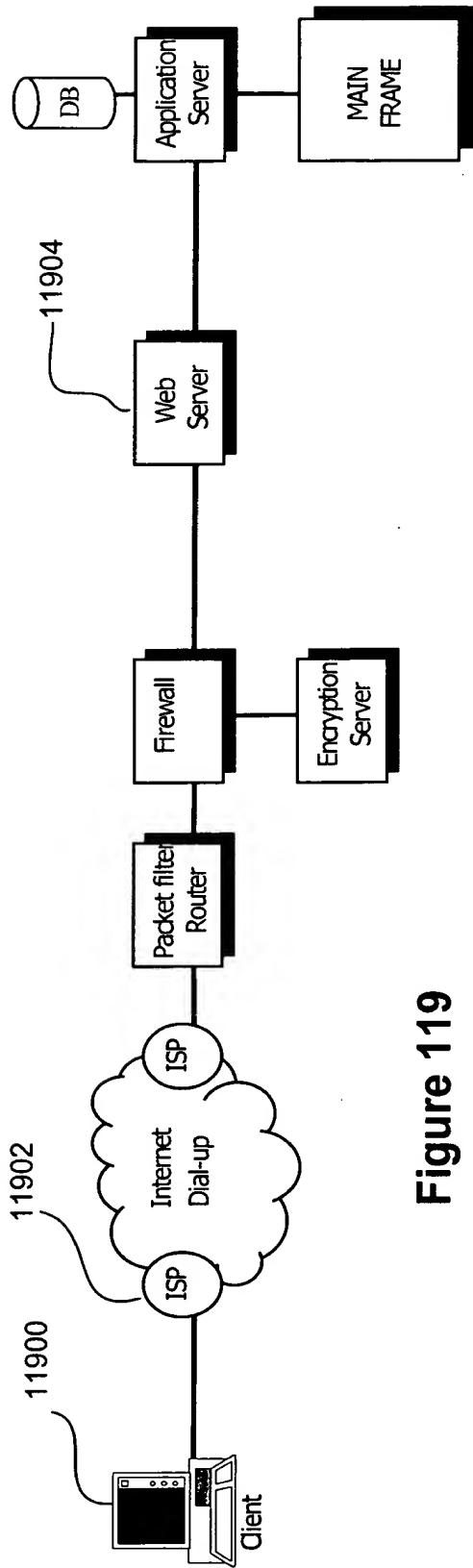


Figure 119

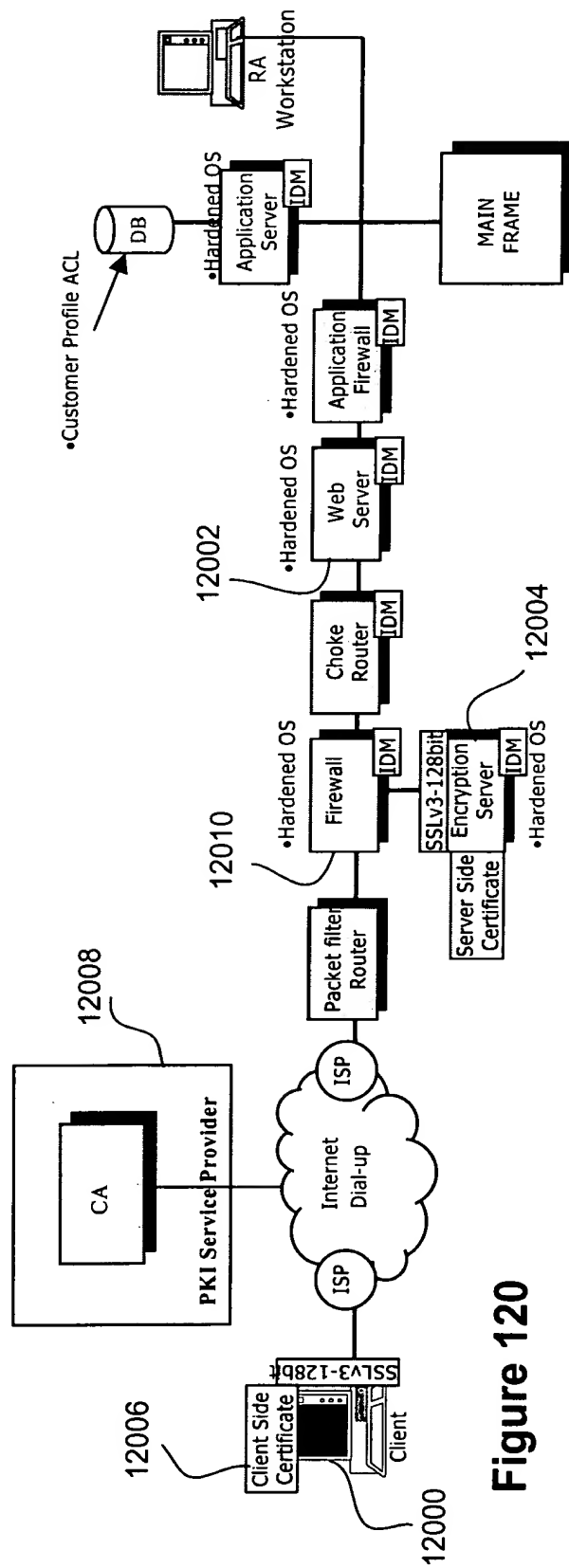


Figure 120

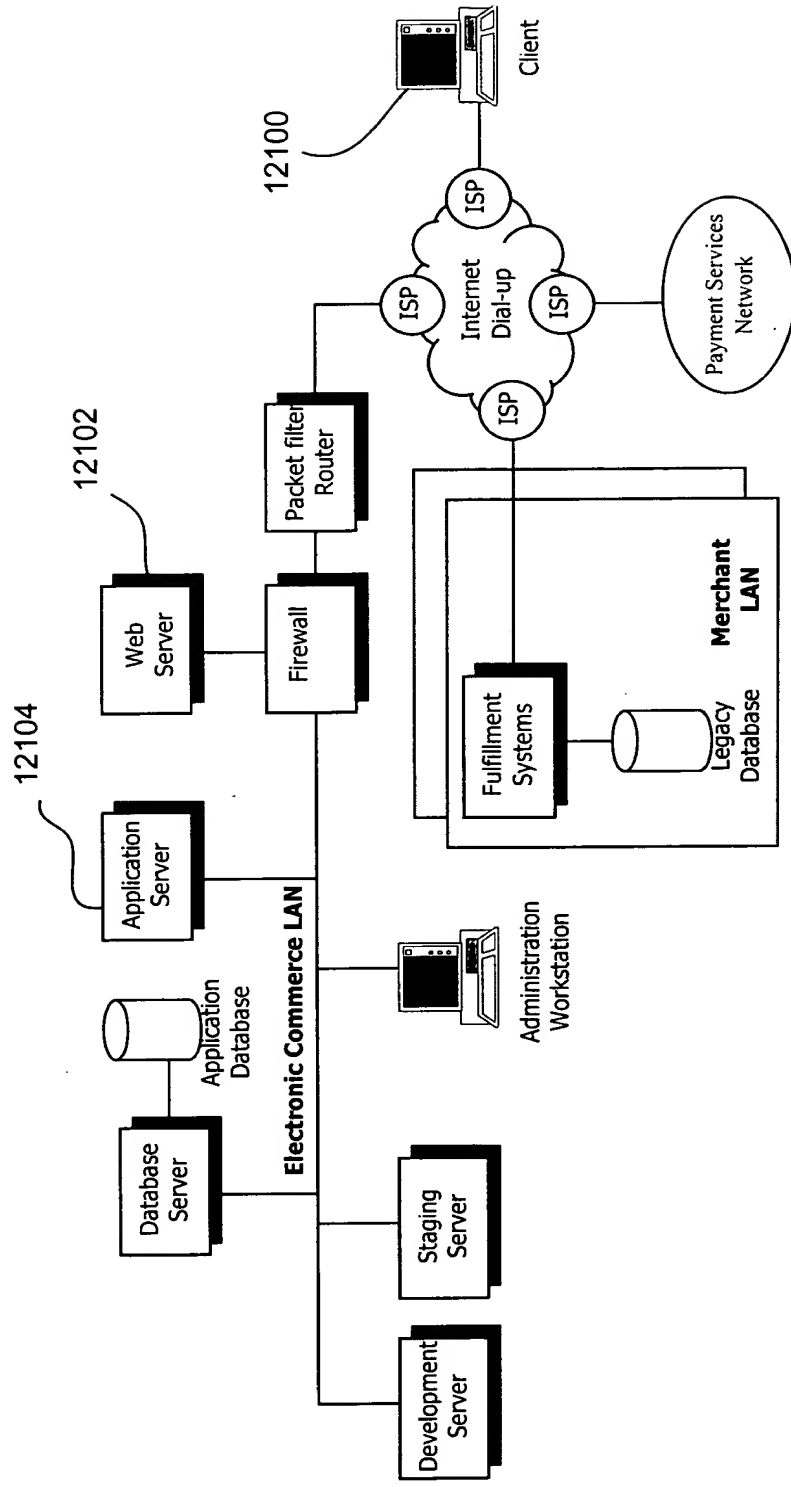


Figure 121

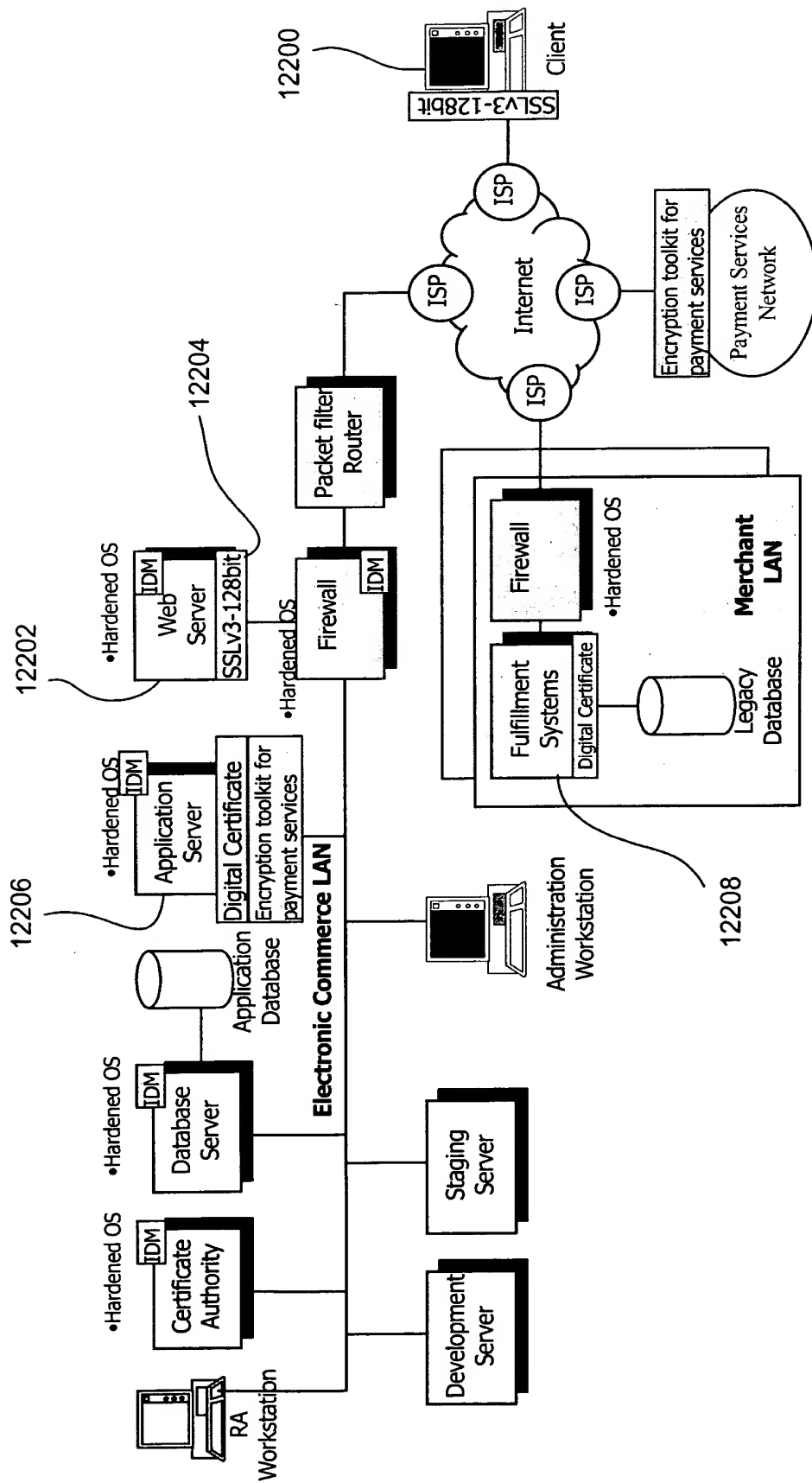


Figure 122

12300

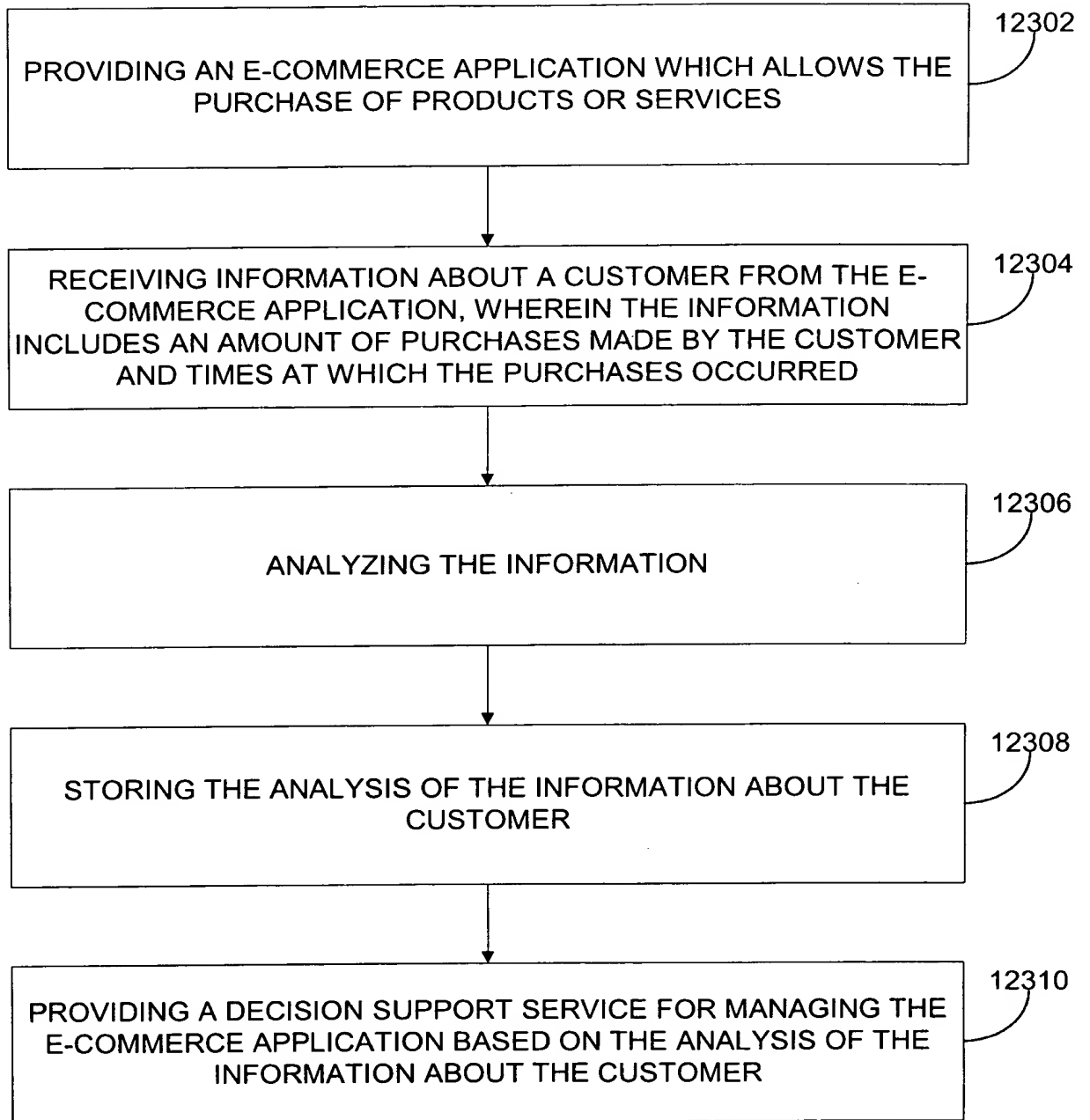


Figure 123

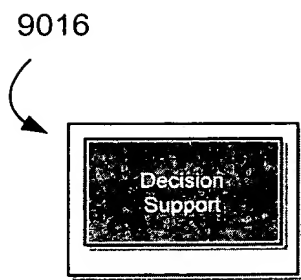


Figure 124

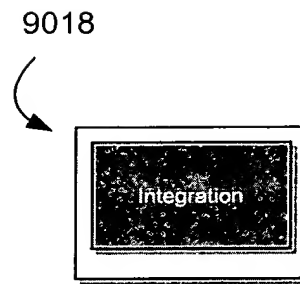


Figure 125

12600

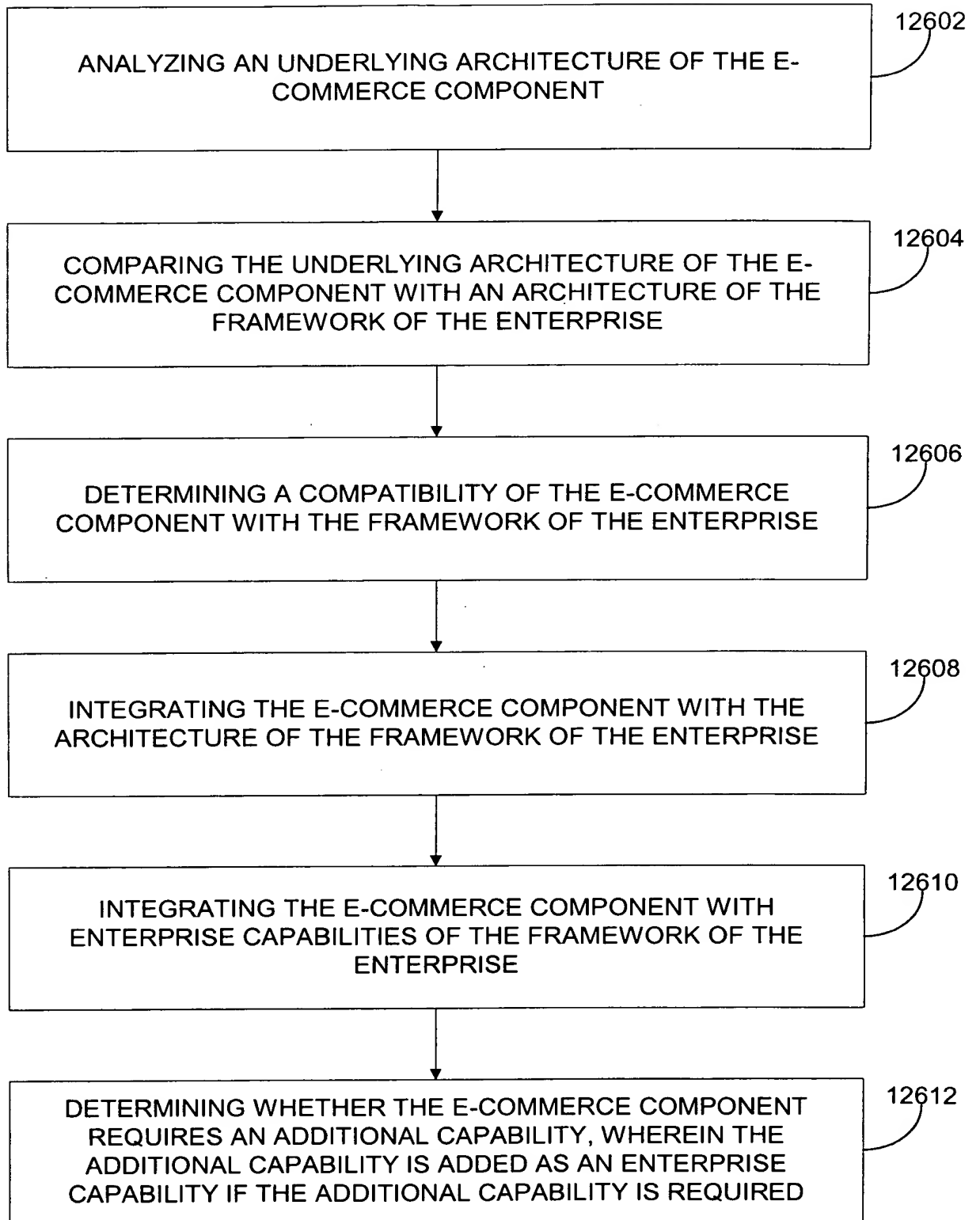


Figure 126

Bandwidth Market

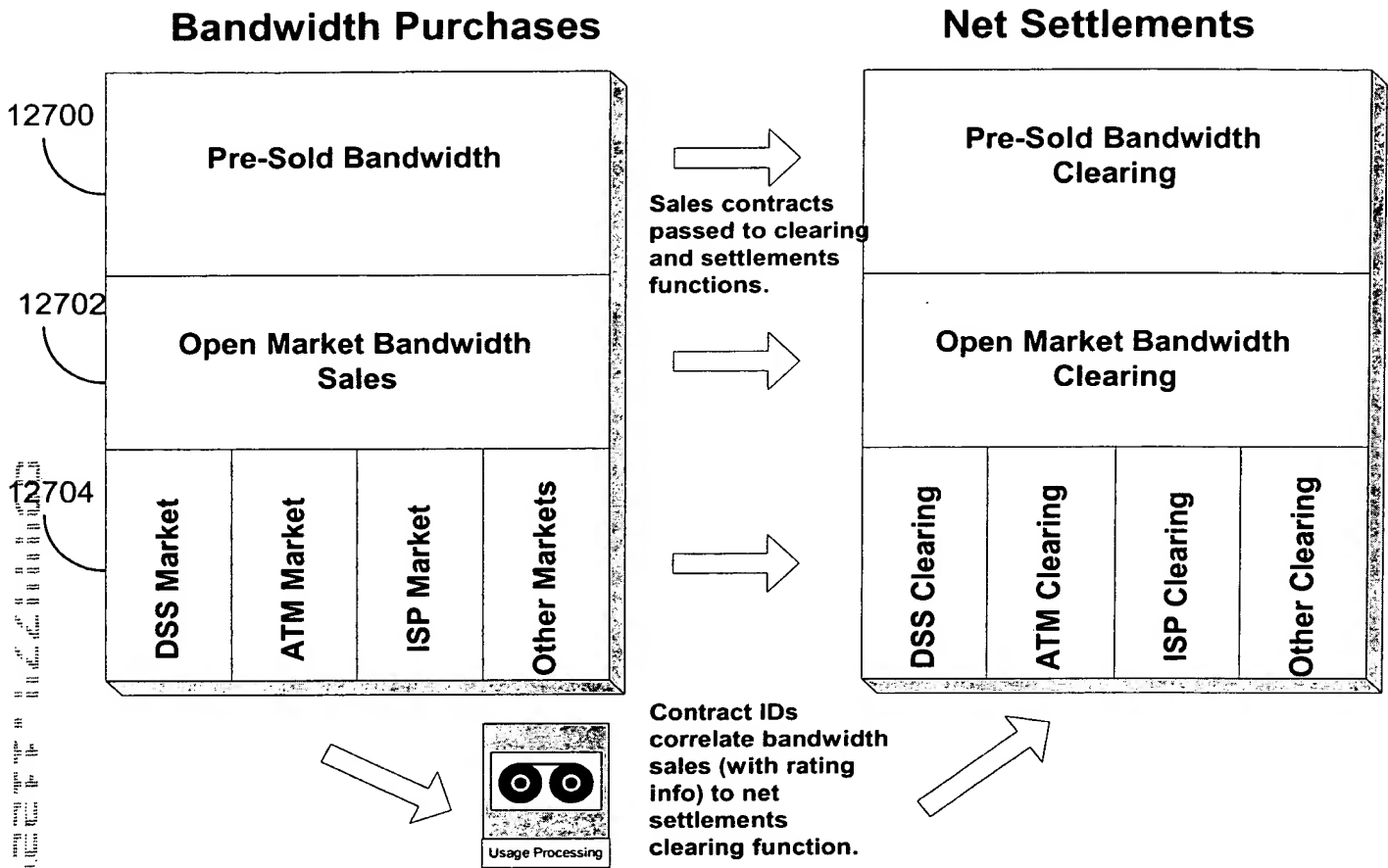


Figure 127

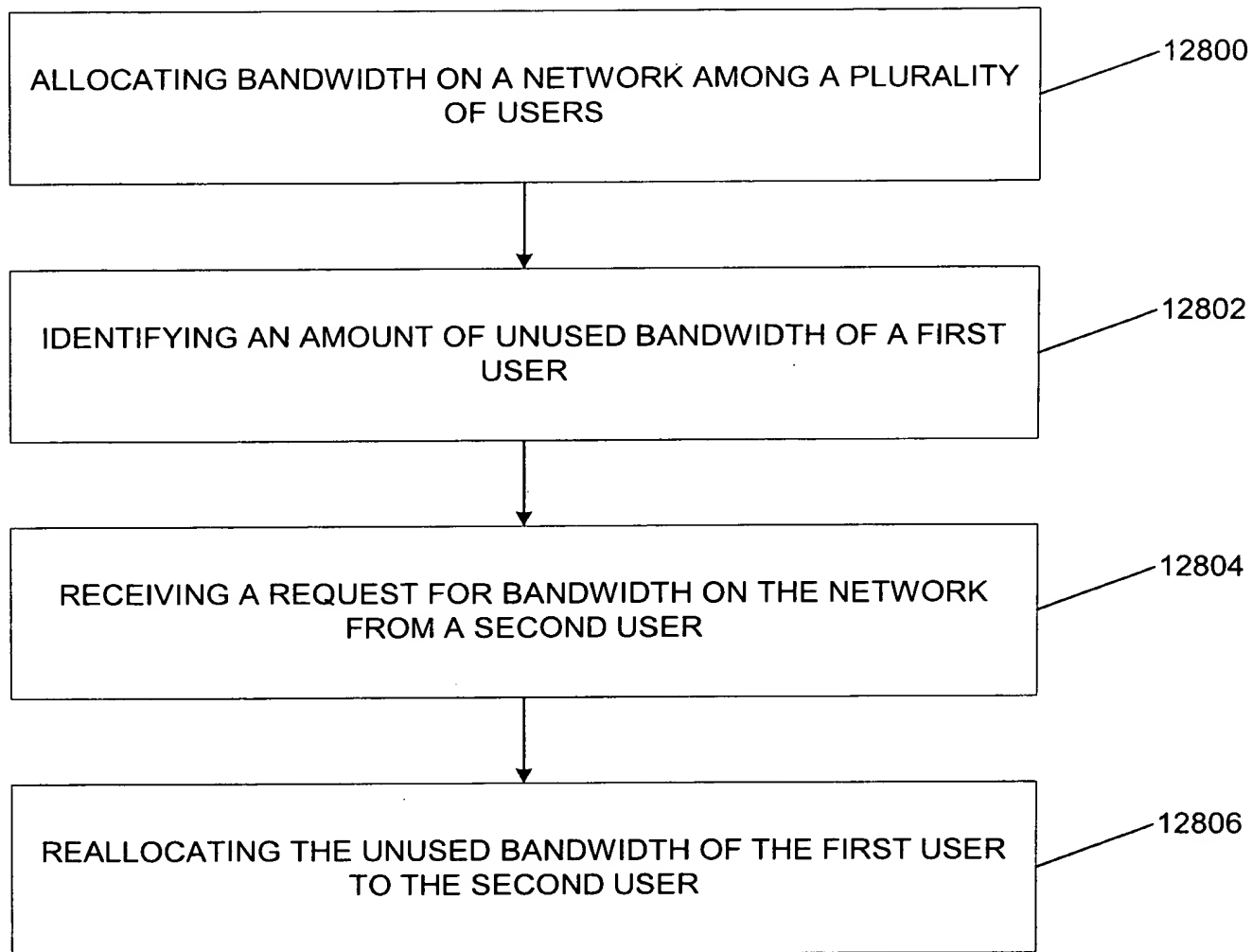


Figure 128

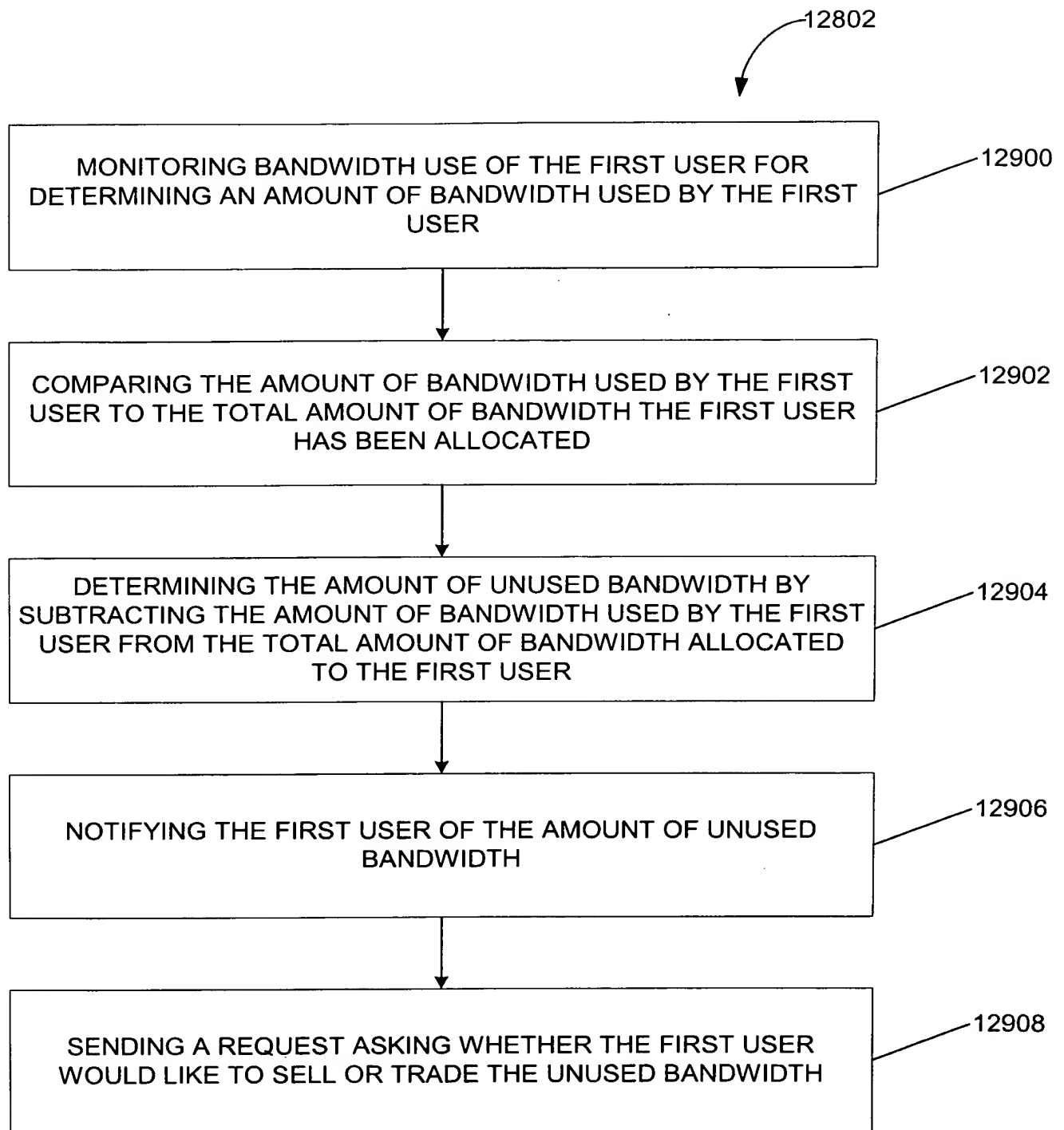
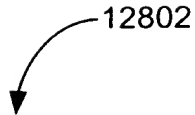


Figure 129

12802



SENDING THE FIRST USER A REQUEST ASKING WHETHER THE
FIRST USER HAS ANY UNUSED BANDWIDTH THAT THE FIRST
USER WOULD LIKE TO TRADE OR SELL

13000

RECEIVING A RESPONSE FROM THE FIRST USER INDICATING AN
AMOUNT OF UNUSED BANDWIDTH THAT THE FIRST USER
WOULD LIKE TO TRADE OR SELL

13002

VERIFYING THE AVAILABILITY OF THE AMOUNT OF UNUSED
BANDWIDTH THAT THE FIRST USER WOULD LIKE TO SELL OR
TRADE

13004

Figure 130

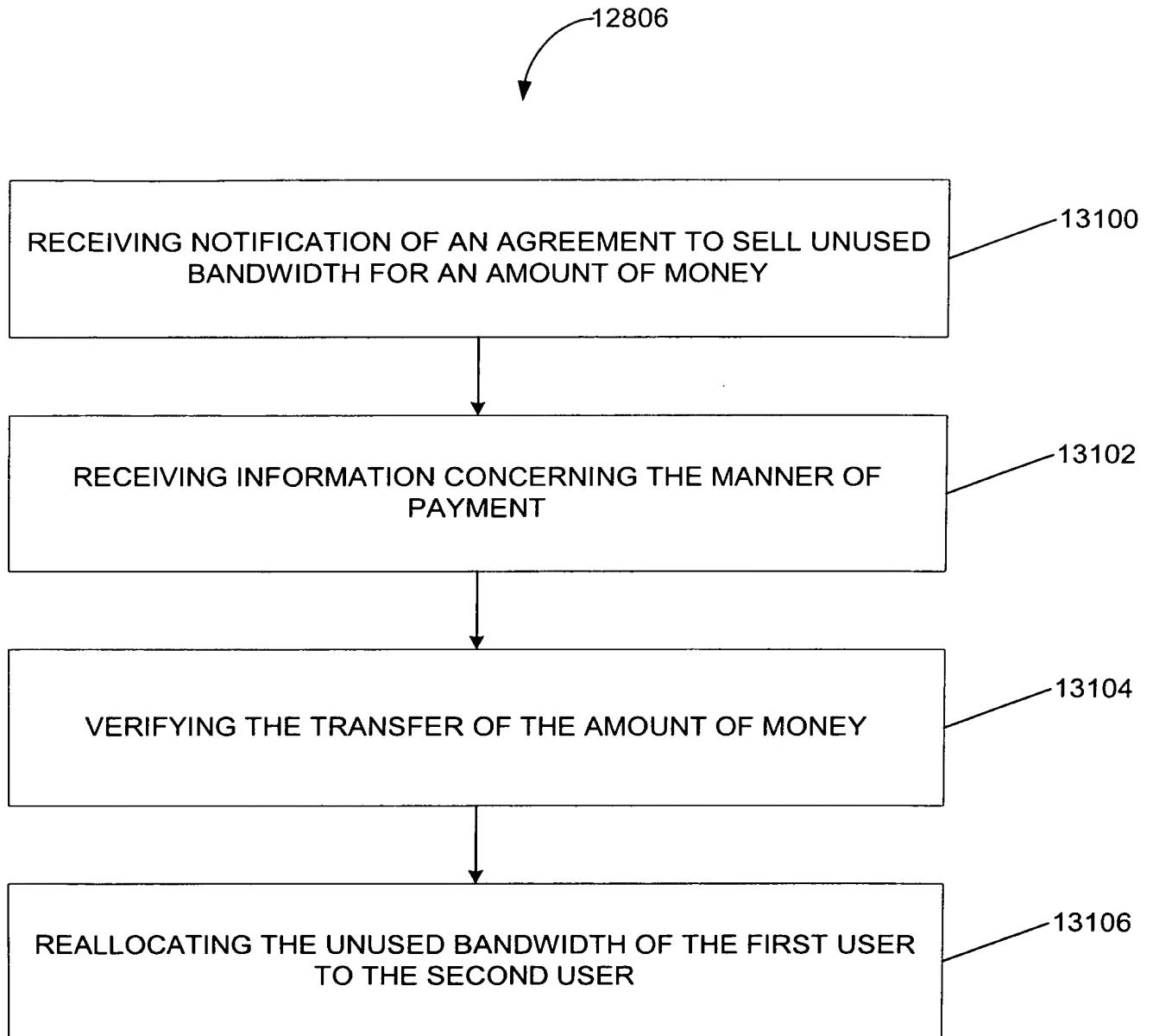


Figure 131

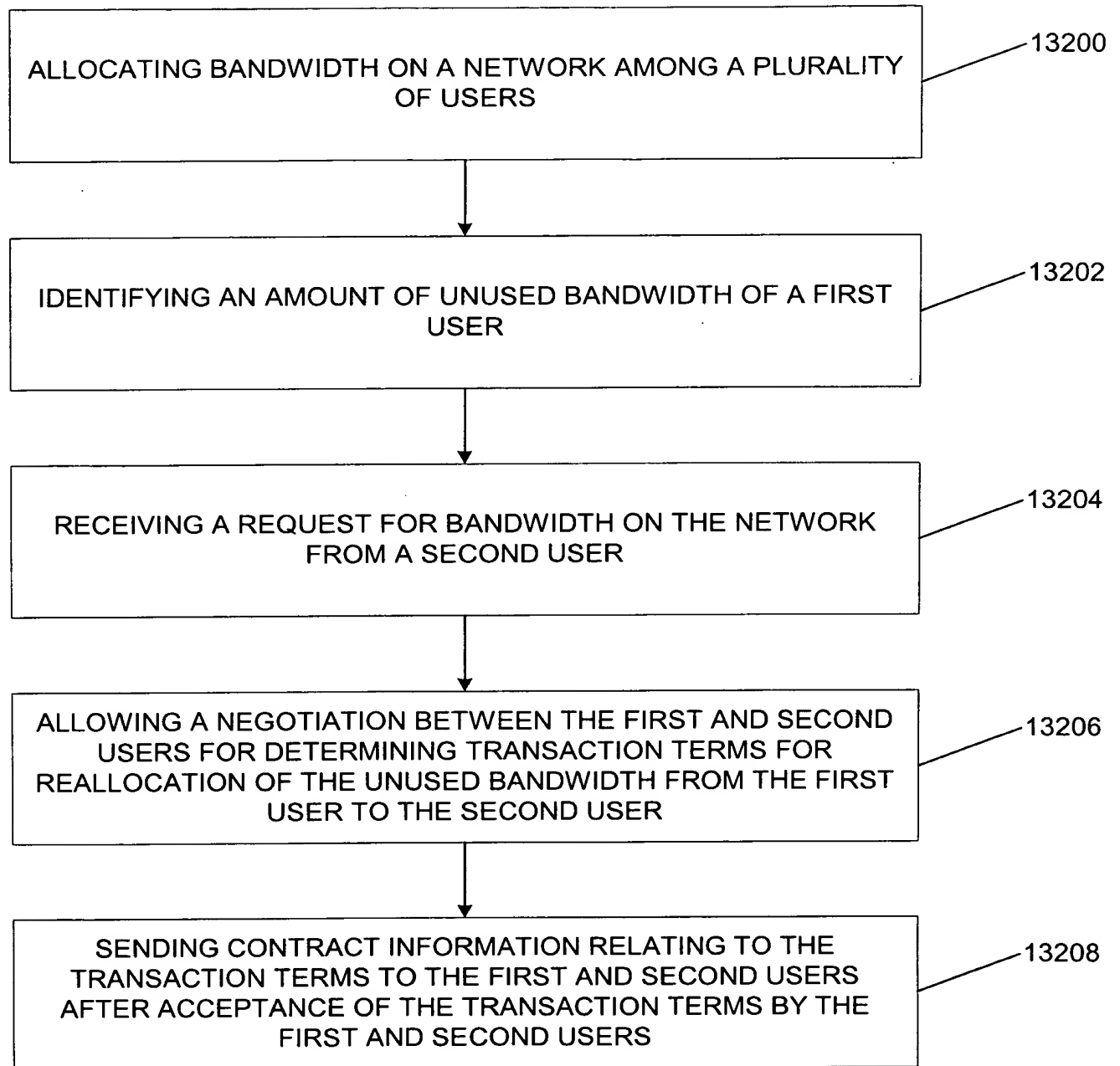


Figure 132

Bandwidth Contract Flow

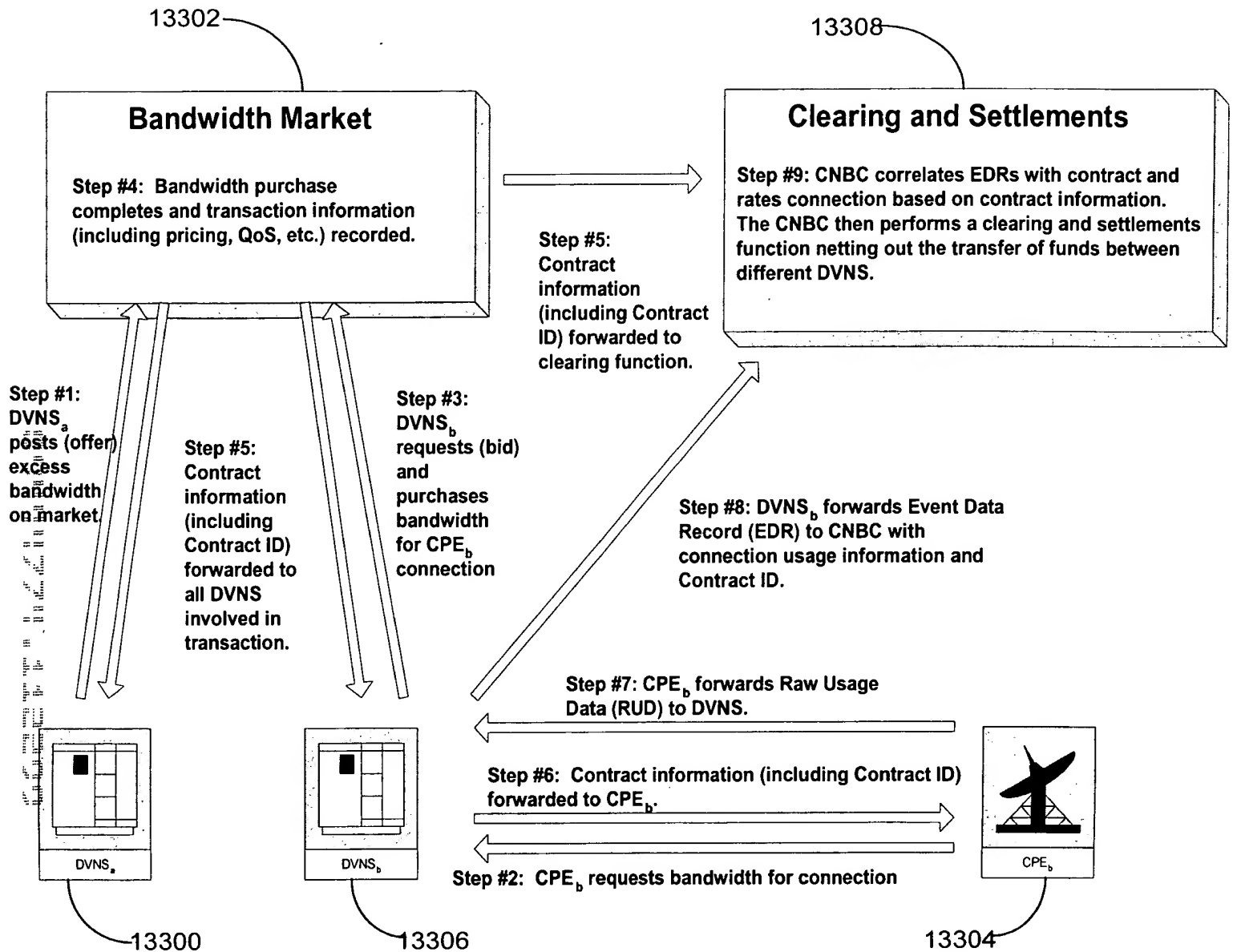


Figure 133

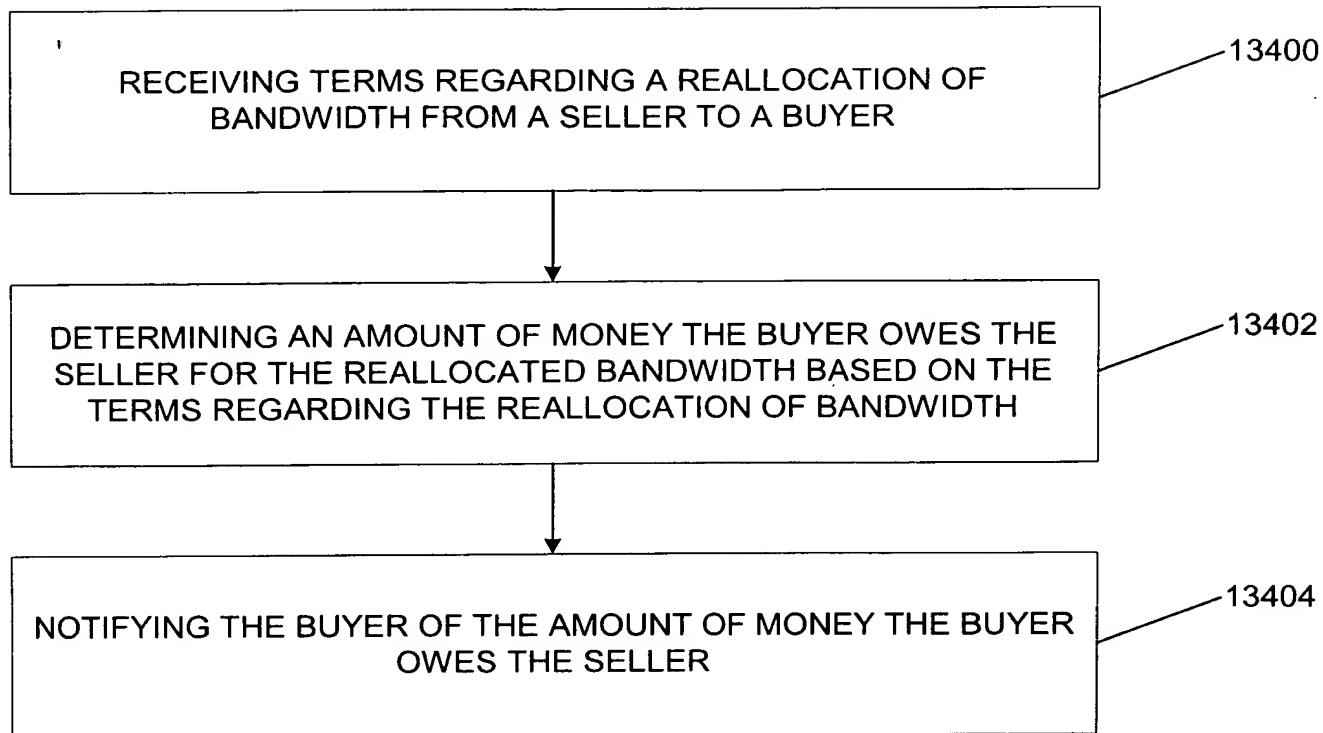


Figure 134

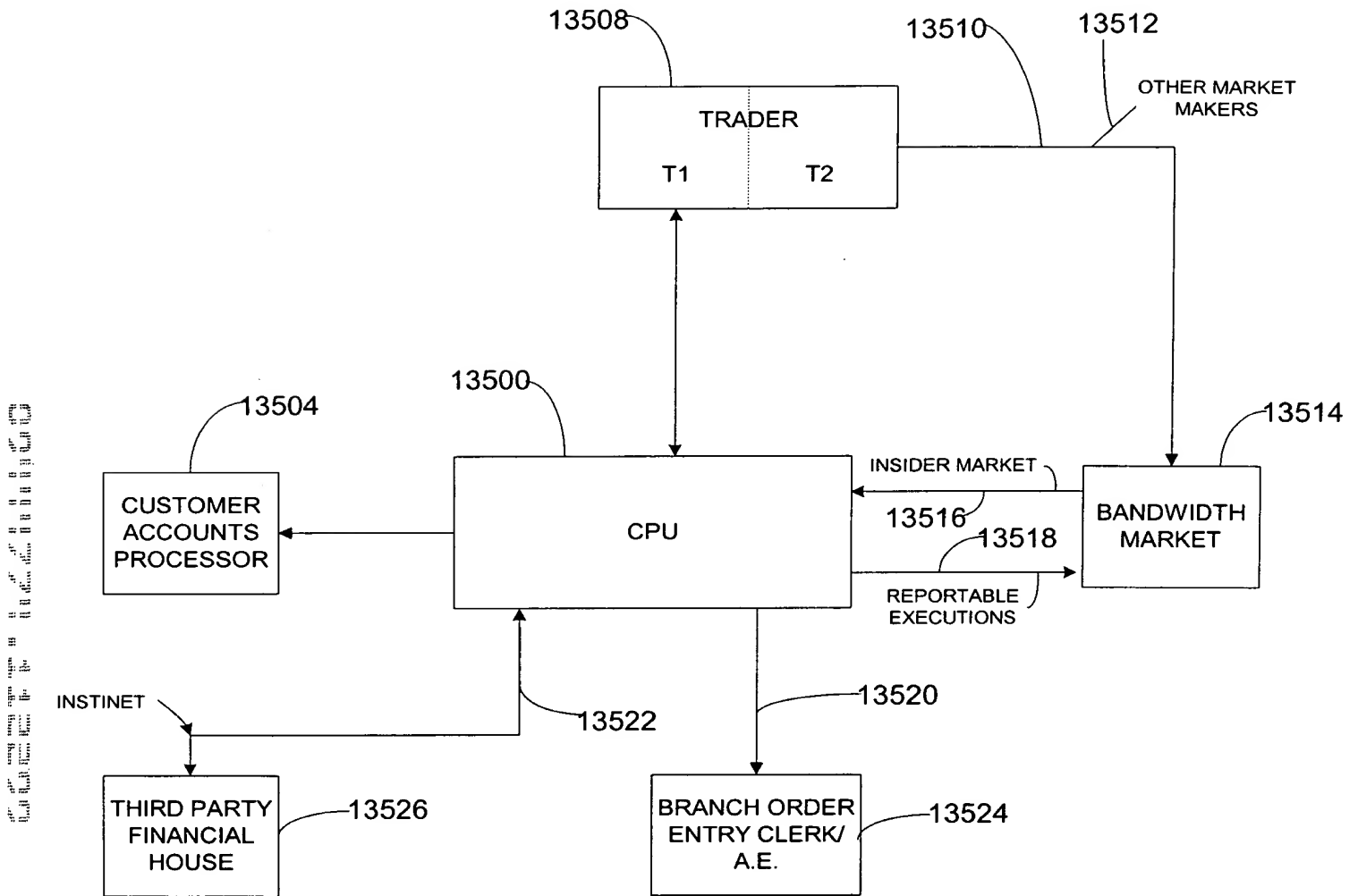


Figure 135

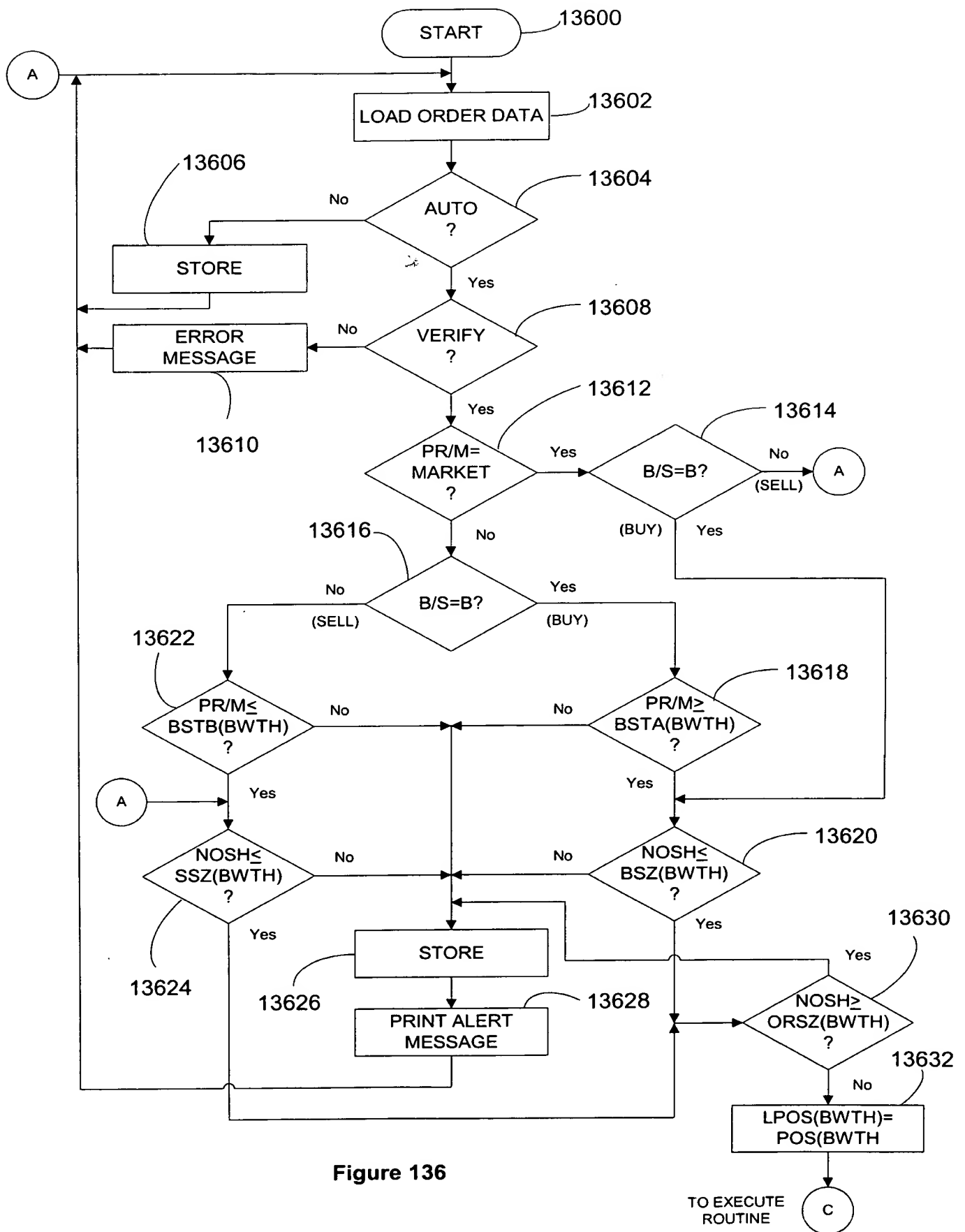


Figure 136

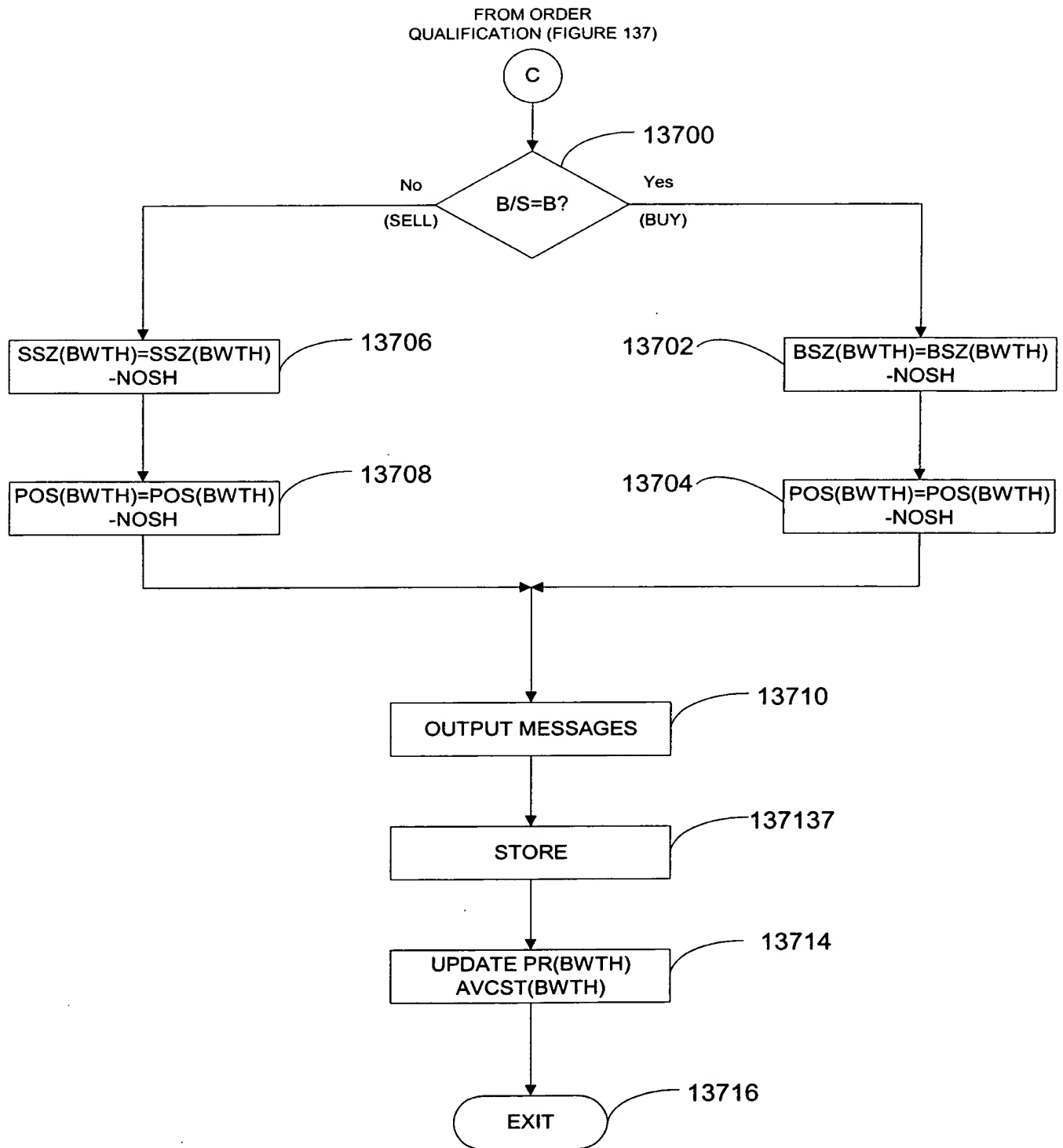


Figure 137

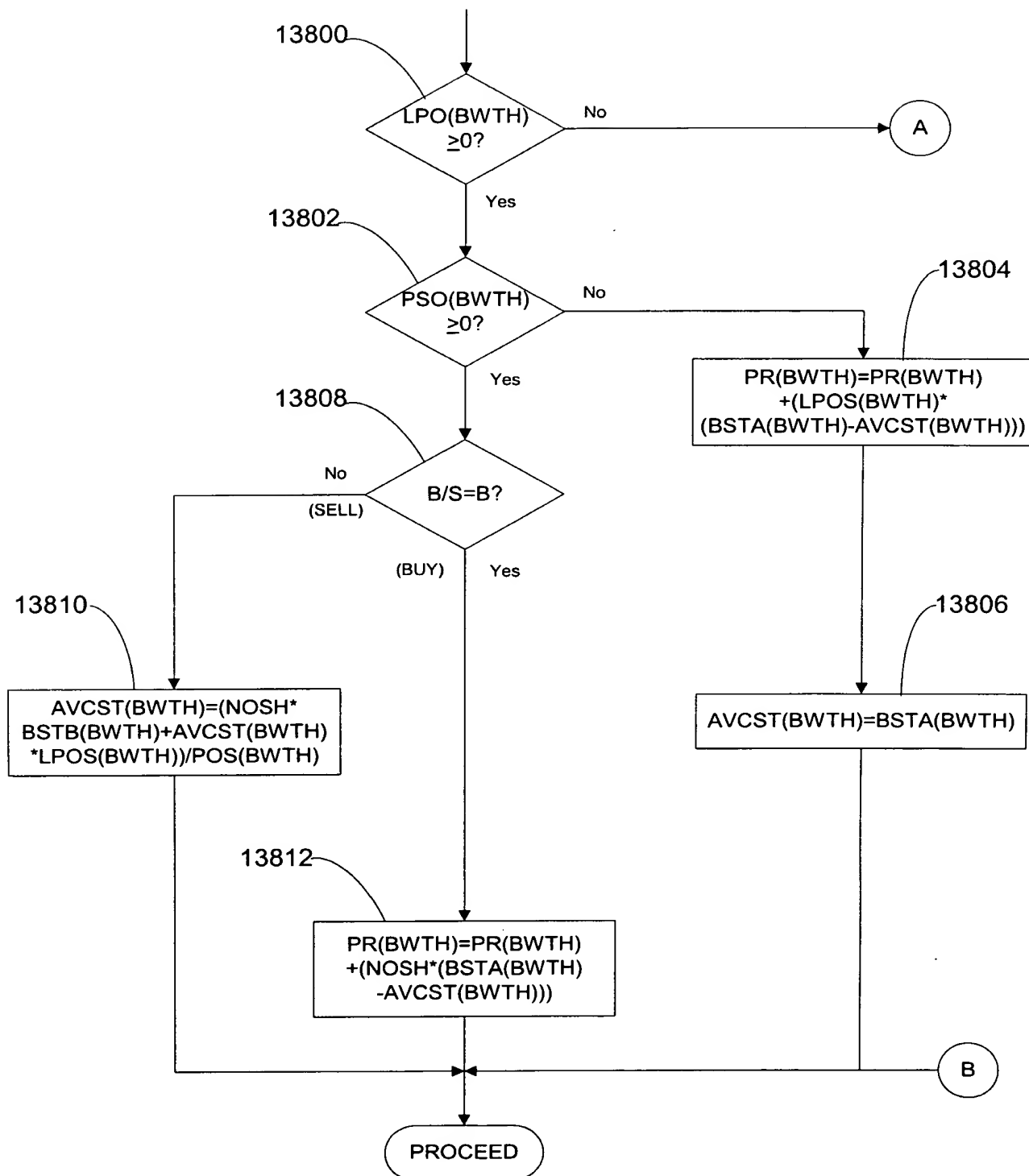


Figure 138

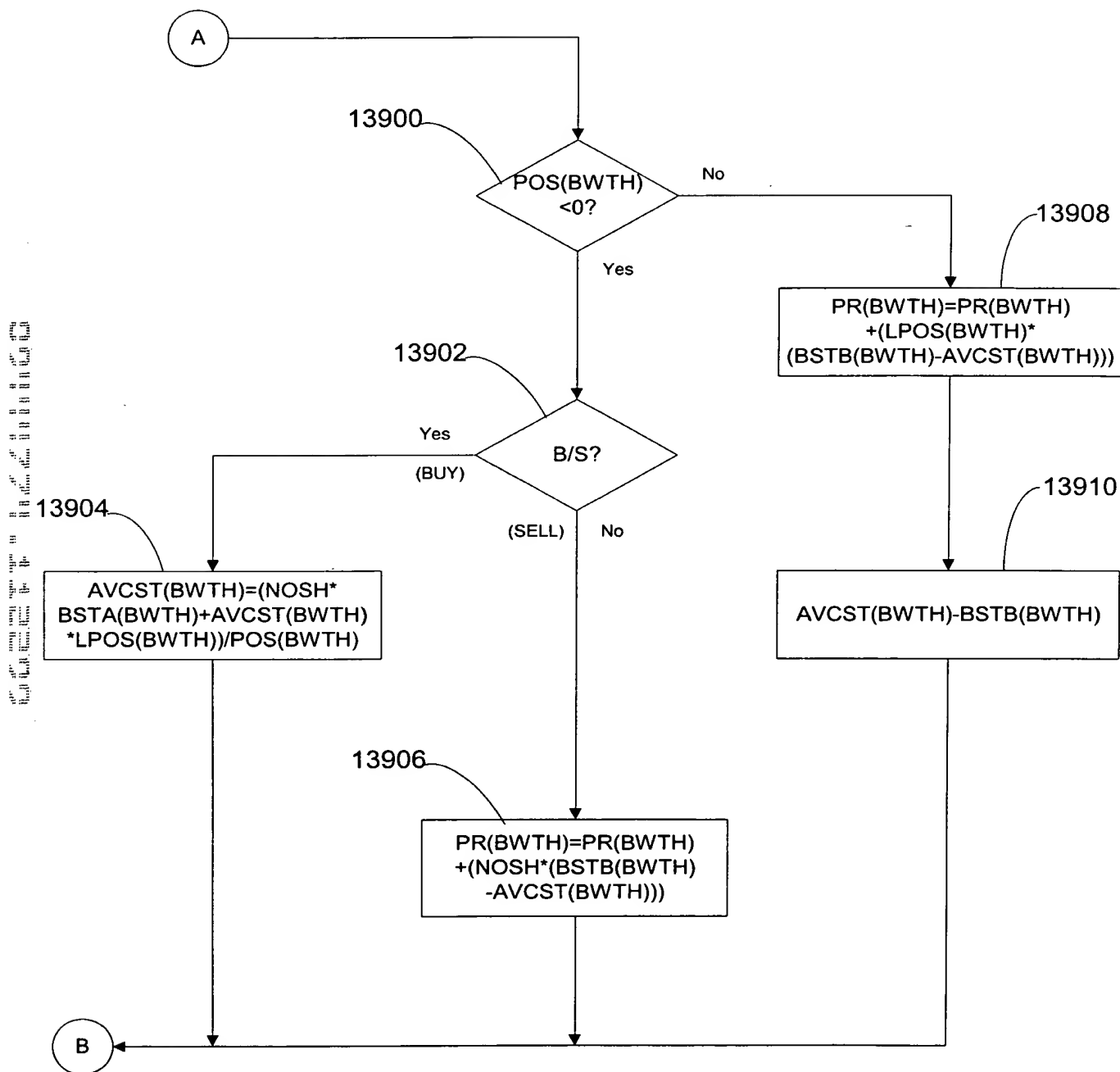


Figure 139

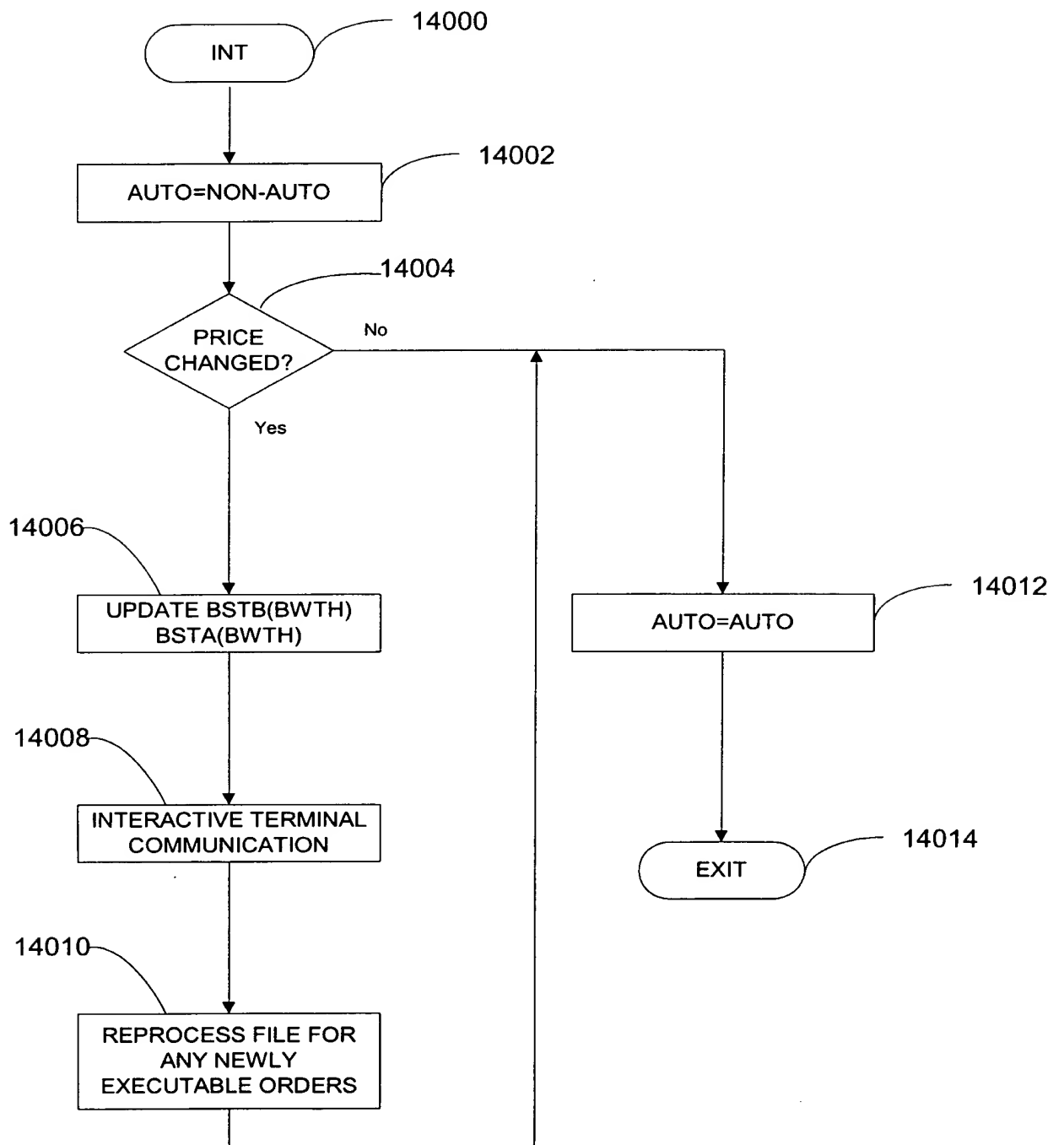


Figure 140

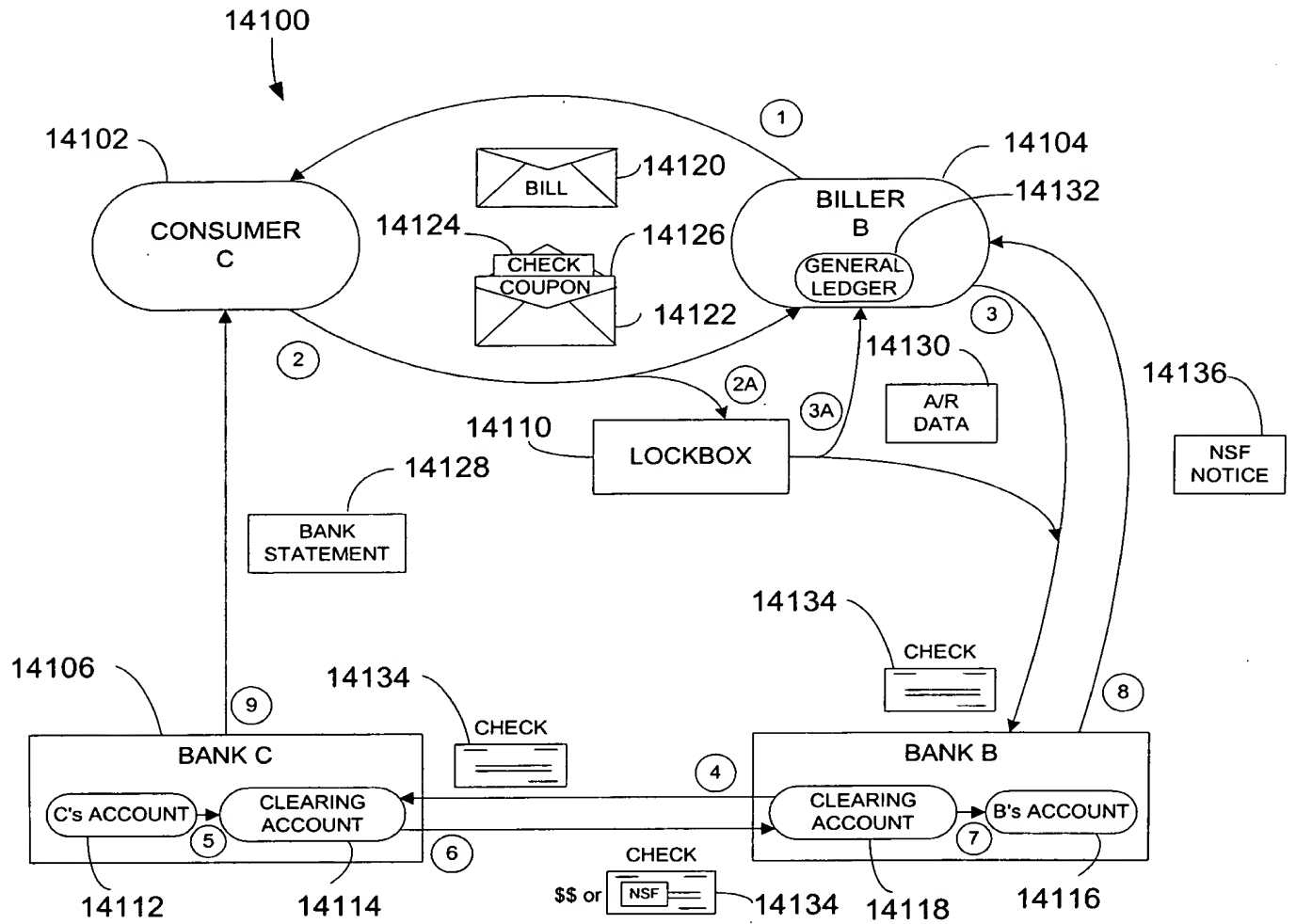


Figure 141

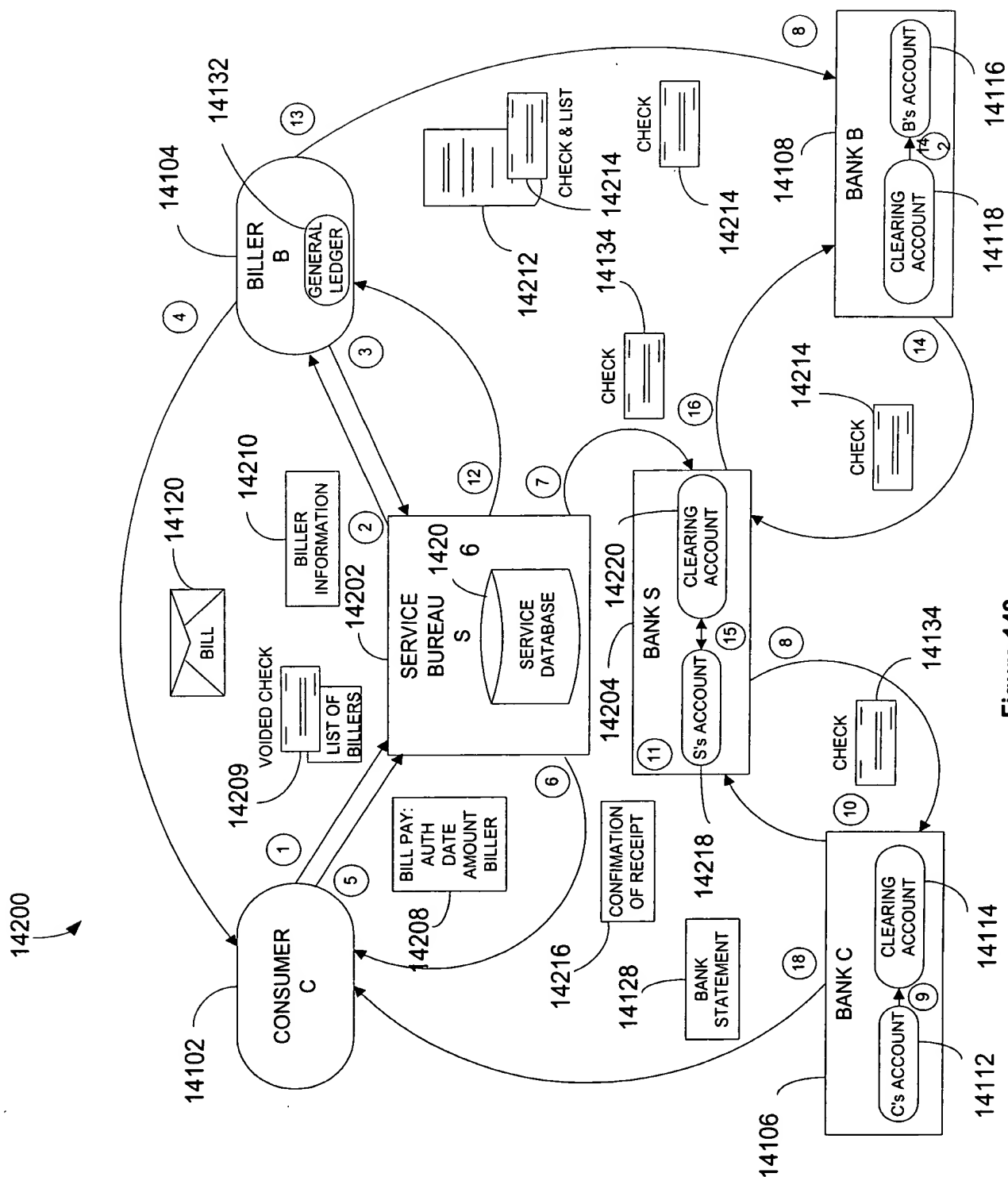


Figure 142

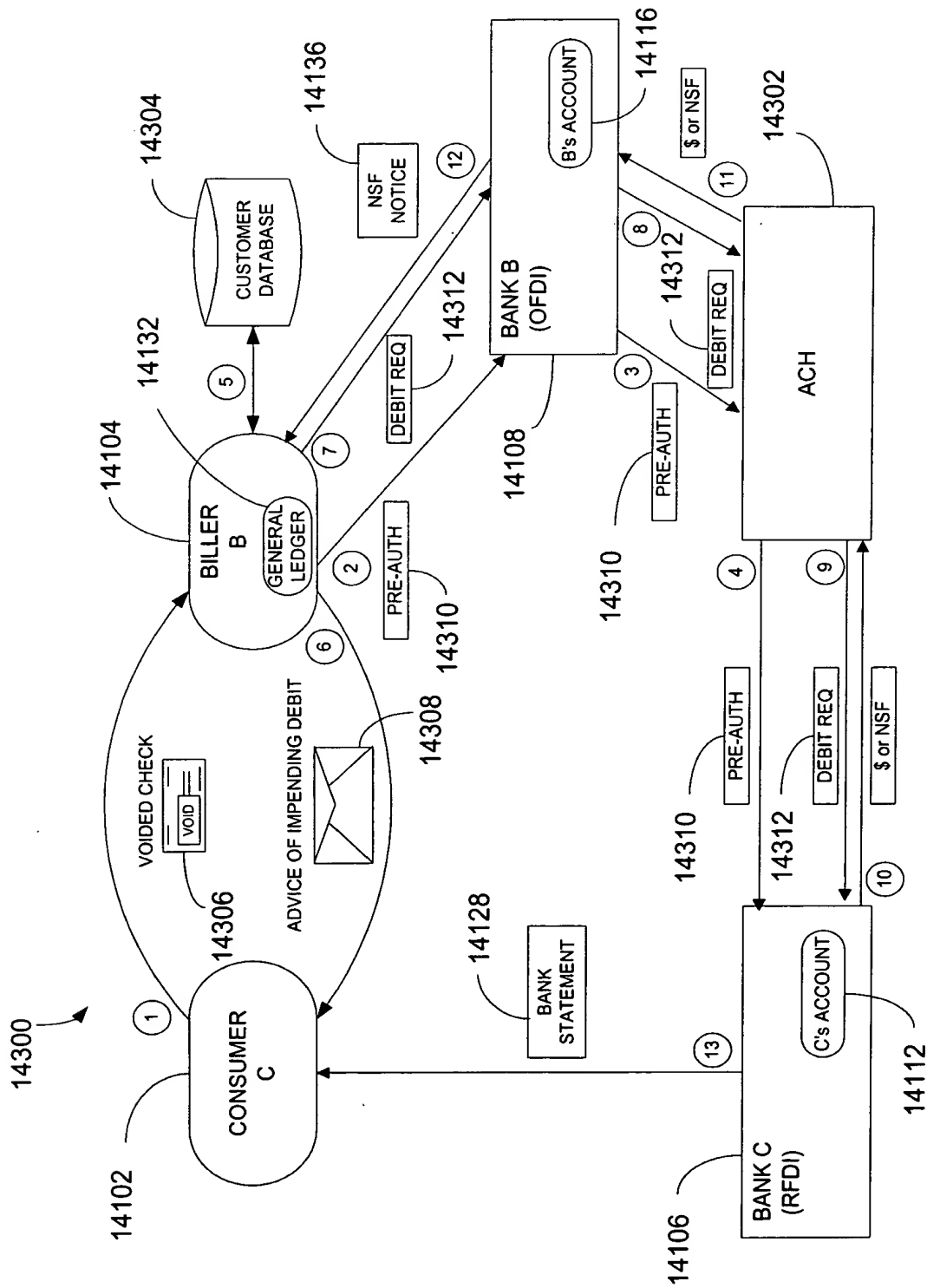


Figure 143